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TALE OF TWO GARDENS **PART TWO**

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HIGH TIMES

APRIL 1989

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LIGHTING FOR GROWTH

The Mel Frank Guide
To Plant Lights

PLUS SPECIAL
HUMOR SECTION

I SMOKED POT
WITH BIGFOOT
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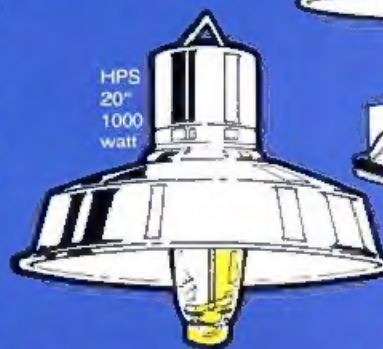
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Reflective
Aluminum
Hood



20" Horizontal
Super Reflective
Hood



MH
14"
400
watt



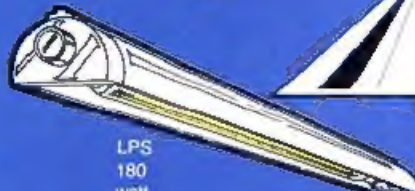
HPS
20"
1000
watt



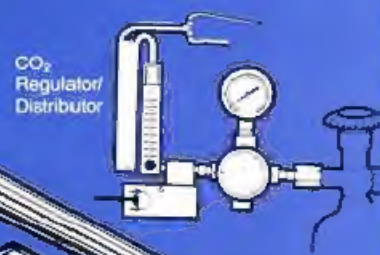
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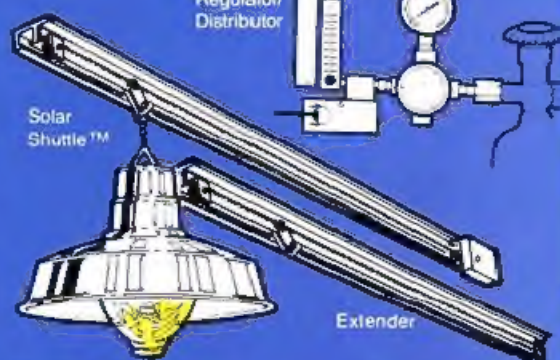
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Might
Grow
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On the cover:
Macrophotography of
trichomes by Mel Frank.





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PUBLISHER
ROBERT ARONSON
EDITOR-IN-CHIEF
STEVEN HAGER
EXECUTIVE EDITOR
JOHN HOLMSTROM
ART DIRECTOR
FLICK FORD

MANAGING EDITOR
ERIC DANVILLE
CONTROLLER
SHEILA AVON

CIRCULATION MANAGER
RAYMOND L. BLACKSTOCK

ADVERTISING MANAGER
ELLEN SPENCER

ADMINISTRATIVE ASSISTANT
JUDY McGUIRE

CONTRIBUTING WRITERS
ED ROSENTHAL, CULTIVATION
STEVE BLOOM, NEWS
BRAM, INDOOR GROW
MIKE SAPPOL, COPY

ROBERT CONNELL CLARKE, THE GENERAL,
PETER GORMAN, RA JAMES, ESPY LACOPA,
DEAN LATIMER, AID MacSPADE,
JAMES MARSHALL, CARLO McCORMICK,
JIM POLING, KYLE ROQ, LOU STATHIS,
MICHAEL WELDON

CONTRIBUTING ARTISTS AND PHOTOGRAPHERS
BRIAN SPAETH, DESIGN
ELIN WILDER, PHOTOS
DAVID ALLEN, ACE BACKWORDS,
ANDRE LEROY DAVIS, ERIC DROOKER, JOHN EDER,
BOB FINGERMAN, ANDRE GROSSMANN,
MILTON KNIGHT, LENNIE MACE, JAMES ROMBERGER,
JEFF VAUGHAN, J.D. KING, CAPT. WHIZZO

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PAGE SIX

Every protest movement needs an anthem, and we've been working on one up at HIGH TIMES to mark the official Year of Protest. So far, the best one we've got is "Don't Tread on Me" by the Soul Assassins. A 45 single of the song is being sent to public-access FM stations across the land, along with a list of dates for upcoming protest rallies. If we are ever going to end the persecution of potsmokers, we must all join together in supporting this movement. Please join the fight for legalization by supporting my Freedom Fighters (see page 84). If you've written a protest song, send a tape to me at HIGH TIMES, 211 East 43rd St., NYC 10017. And don't forget to show up at the rallies this month: April 1st at Ann Arbor, Michigan, and April 19th at Champaign-Urbana, Illinois.

PEACE, Ed

Ed Hassle

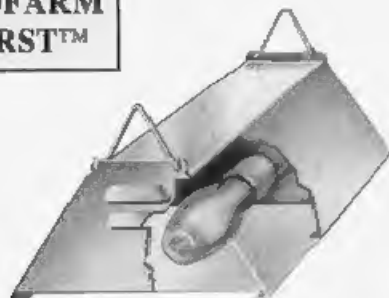




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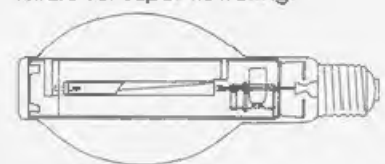
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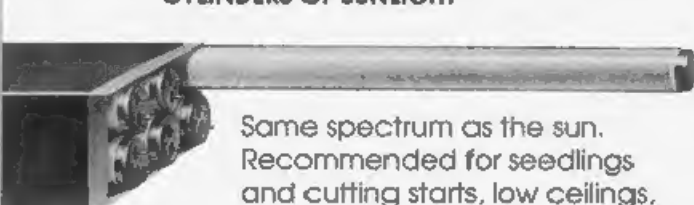
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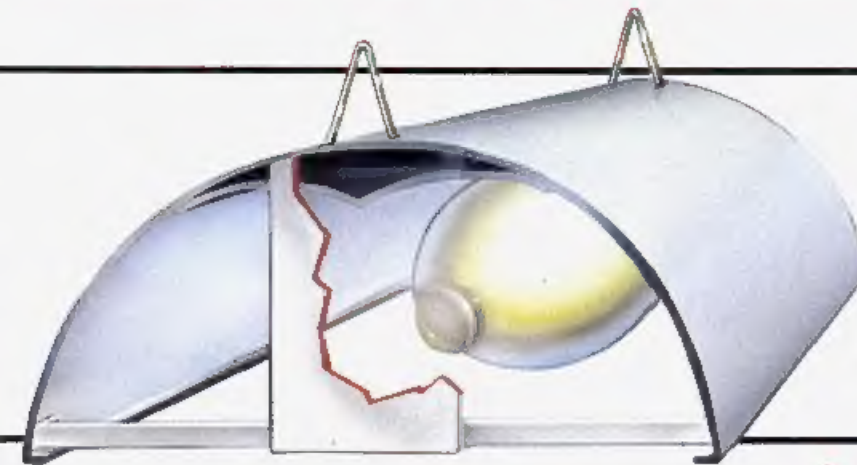
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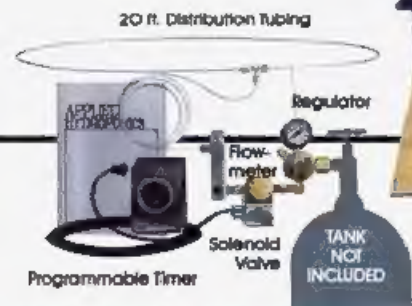
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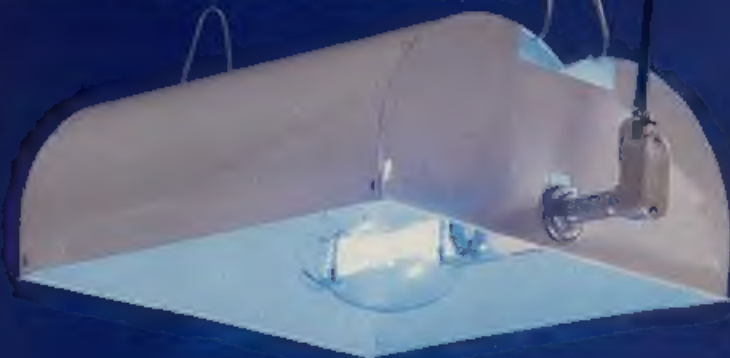


COD



CA & PA residents add 6% sales tax. All prices plus shipping.

MAX-89 "THE ULTIMATE HORIZONTAL"
89% increase in light output
Double Arc, low profile, adjustable, electro-white ▼

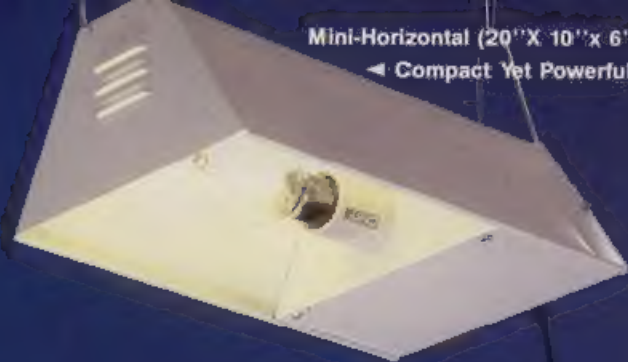


Compare Quality & Price
you are saving 5% to 40%

Heavy Duty Ballast ▶
With 38 cooling louvers



Mini-Horizontal (20"X 10"X 6")
◀ Compact Yet Powerful



CO₂ Enrichment System

HAMILTON'S GROW LIGHTS ARE THE NEW #1 IN THE U.S.A.

Only Hamilton has been honored for having its Horizontal Lighting Systems exhibited at the 1988 Hydroponic Society of America convention

A good grow light is the key to your indoor growing success

It is well known that Metal Halide and High Pressure Sodium full spectrum lights, especially in a horizontal system, are the best lights to promote good plant growth and to increase bud and flower production. All other lighting systems including fluorescent are too weak to supply enough light for budding and flowering.

How to get maximum light output

Hamilton has perfected the ultimate horizontal reflector; **Max 89**. The unique double arc "v" design and the super reflective finish of **Max 89** give a remarkable 89% increase in light output over vertical mounted lights. It is not possible to design a reflector that can give more light than **Max 89**. Its ventilation design assures a longer bulb life. Every **Max 89** has an adjustment feature which allows you to regulate light to meet the requirements of your growing area with either more concentrated or more diffused light. **Max 89** has a low profile design that actually leaves more vertical space for plant growth.

Percentage of light output increase

Hamilton Technology	89%
Max 89	89%
Hamilton Technology	68%
Mini-Horizontal	68%

Better safe than sorry

Many poorly designed lighting systems become fire hazards with increased use. Hamilton's UL approved heavy-duty, high temperature resistant lamp cords are not only 220° F./600 volt but have an "STQ" safety and durability rating. For utmost safety, lamp cords are connected 4" away from the socket in a protective junction box to prevent fire from lamp heat build up.

MH250 Mini-Professional System

The most powerful mini-horizontal on the market (reg. \$148) **Sale \$119.⁹⁹**

Mini-Horizontal MH175 or HPS150

Compact (built-in ballast), powerful & economical. Ideal for small growing areas, side lighting, and cuttings (reg. \$119) **only \$95.⁰⁰**

How to get highest quality products

Our UL approved ballast components are mounted on a heavy 14 gauge steel panel with strong studs to insure whisper-quiet performance and durability. The single heavy panel acts as an excellent heat dissipator, unlike thin, double-walled heat traps that vibrate and echo irritating noise. The 3-way, 38 bi-level louvered enclosure gives maximum cooling air flow for longer ballast life. These louvers give better protection against water splash and dirt entry than screen or slot type systems. Our ballasts come with a rust protective white finish.

Comparison of Ballast Enclosure

Hamilton Technology

38 bi-level louvers, 3 way

Competitor A

12 louvers

Competitor B (no louvers, slot type)

NEW! Conversion HPS Bulbs that work in Metal Halide Systems

Convert your existing Metal Halide System into High Pressure Sodium by simply changing a bulb.

1000w \$129.⁰⁰ - 400w \$59.⁰⁰ - 175w \$57.⁰⁰

Best value at Hamilton

Hamilton offers quality products at the lowest prices. Why should you pay inflated prices for inferior products? Order from our large selection of light and hydroponic systems. **On page 12**

★ see ad on page 12 ★

COMPARE PRICE & SAVE WITH HAMILTON

Metal Halide 1000w from	.....\$139.95 to \$179.95
Metal Halide 400w Deluxe	.....\$133.95
Combination MH 400w/HPS 400w	.....\$299.00
High Pressure Sodium 1000w Deluxe	.....\$265.95
High Pressure Sodium 400w Deluxe	.....\$174.95
Mini-Horizontal MH 175w or HPS 150w	.....\$95.00

CO₂ Enrichment System

Increasing CO₂ in the air speeds plant growth dramatically and doubles budding and flowering. Fully assembled unit includes: Regulator, Gauge, Solenoid Valve, FlowMeter, Tubing, Instructions. (Timer optional \$71) **Sale \$129.⁹⁹**

Satisfaction guaranteed

Order from Hamilton with confidence that our systems are of exceptional quality, performance and value. Our light systems will perform beyond your greatest expectations. We fully guarantee your complete satisfaction with our **30-day money back policy**. Our lighting systems are guaranteed for 5 years (bulb 1 year).

Fast COD or Credit Card delivery by UPS anywhere. Large inventory. Now... Shipping in 24 hours.

TO ORDER TODAY CALL:
(800) 458-7474

HAMILTON TECHNOLOGY CORP.

14902 S. Figueroa St., Gardena, CA 90248

LOS ANGELES CUSTOMERS:

Buy direct from factory (213) 217-1191

14902 S. Figueroa St., Gardena, CA.



METAL HALIDE COMPLETE GROWLIGHT SYSTEMS

1000 WATT SYSTEMS

DELUXE - 48" round or parabolic	
20" horizontal	184.50
STANDARD - 18" White Enamel Reflector	167.50
ECONOMY - 2"x3" Polished Aluminum Reflector	144.50
To upgrade to a 125,000 lumen-12,000 hour Superbulb	Add 15.00
Phosphorous coated bulbs	Add 6.00

400 WATT SYSTEMS

DELUXE - 14" White Enamel Reflector	134.50
STANDARD - 14" White Enamel Reflector	124.50
ECONOMY - 2"x3" Polished Aluminum Reflector	109.50
To upgrade to a 40,000 lumen-20,000 hour Superbulb	Add 10.00
Phosphorous coated bulbs	Add 6.00

MINI-MIGHT METAL HALIDE 175 WATT



HIGH PRESSURE SODIUM COMPLETE GROWLIGHT SYSTEMS

DELUXE 1000 Watt 48" round or parabolic 20" horizontal	269.50
DELUXE 400 Watt 14" Reflector	189.50
MINI-MIGHT 150 Watt 16,000 lumens	99.00

LOW PRESSURE SODIUM COMPLETE GROWLIGHT SYSTEMS

DELUXE 180 Watt Low Pressure Sodium light	195.00
-------------------------------------------	--------

LIGHT MOVERS



6" Solar Shuttle	99.00
6" Solar Shuttle Extender	39.95
Solar Shuttle Motor	22.00
Whirling Light Turret	119.00
Sun Circle Light Rotator 360°	
One revolution every 40 minutes	
1 Arm	139.00
2 Arm	199.00
3 Arm	256.00

TIMERS

Paragon 15 amp/120 volt	14.95
Dayton 15 amp/120 volt	19.95
Dayton 40 amp/120 volt	37.95
Dayton 40 amp/240 volt	39.95
Cycle Timer 1-60 min on/off	79.00

BULBS

METAL HALIDE BULBS

M175 15,000 lumens-20,000 hours	29.00
M400 34,000 lumens-20,000 hours	36.95
MS400 40,000 lumens-20,000 hours	45.95
M1000 110,000 lumens-12,000 hours	54.95
MS1000 125,000 lumens-12,000 hours	69.95
Phosphorous Coated Bulbs	Add 6.00

HIGH PRESSURE SODIUM CONVERSION BULBS



Now available: An energy saving sodium bulb that runs off your existing Metal Halide ballast.	
175w 15,000 lumens-24,000 hours	59.00
400w 50,000 lumens-24,000 hours	69.00
1000w 140,000 lumens-24,000 hours	139.00

HIGH PRESSURE SODIUM BULBS

150 16,000 lumens-24,000 hours	39.00
175 20,000 lumens-24,000 hours	52.95
1000 140,000 lumens-24,000 hours	94.95

LOW PRESSURE SODIUM BULBS

180 Watt 33,000 lumens-24,000 hours	95.00
-------------------------------------	-------

We're celebrating our 10th Anniversary with a 5% discount on all items. Plus a 5 year warranty on all lighting systems. (One year warranty on bulbs.)

VITA LITE

4-ft. power twist, 40 Watt	13.95
Case of six	75.00

REFLECTORS

(complete with socket and cord)

46" polished aluminum or white	49.00
20" horizontal	49.00
20" adjustable white	40.00
18" white	30.00
14" white	25.00
48" Parabolic hood	49.00
4"x4" square polished aluminum	115.00
5"x5" square polished aluminum	130.00

BALLASTS

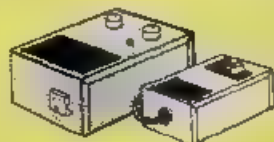
Metal Halide Ballasts (110v or 220v available)	
Deluxe 1000w (includes power supply)	115.00
Star 1000w	105.00
Econ. 1000w (uncovered)	97.00
Deluxe 400w (includes power supply)	95.00
Star 400w	85.00
Economy 400w (uncovered)	70.00
Ballast cover	10.00
High Pressure Sodium Ballasts (110v or 220v avail.)	
Deluxe 1000w	170.50
Deluxe 400w	125.50

HYDROPONIC SYSTEMS

4 unit hydrosplot	208.00
8 unit hydrosplot	295.00
Each additional hydrosplot	16.00

SUBMERSIBLE PUMPS

#2P495 120 GPH	37.95
#1P553 140 GPH	39.95
#1P321 300 GPH	56.95



SURGE SURVIVAL SYSTEM

Command Module with one Remote Module (120 or 240 volts)	139.00
Additional Remote Modules (120 or 240 volts)	ea 45.00

METERS

PH Digital Meter	75.00
Dissolved Solids Digital Meter	75.00
Light Intensity Meter	24.99
Plant Computer	19.95
PH Computer	19.95
Soil Salts Meter	20.99
Moisture Meter	11.95
MINIMAX Thermometer	32.95
Taylor 4" Barometer	39.95
Fertilizer Analyzer	20.99
Humidity Gauge	21.95
Deluxe Humidity and Temperature Gauge	36.95
CO ₂ Gas Detector System (2 analyzer tubes incl.)	19.95
CO ₂ Analyzer Tubes	3.75
CO ₂ Tester	8.99



SOIL AND LIQUID TESTERS

Sudbury Soil Test Kit (Tests Ph, N, P, K)	14.95
Sudbury Soil Ph Tester	3.99
Tetra Test Liquid PH Tester	3.95
Wardley Jr. Liquid PH Tester	3.95
Wardley Sr. PH Test Kit	5.99
Penn Plax Test Strip for Liquid PH	2.75

FANS AND BLOWERS

Ventilator fan with Thermostat (14" 900 CFM)	69.95
Squirrel Cage-15 CFM	21.95
Squirrel Cage-50 CFM	29.95
Squirrel Cage-100 CFM	43.95
Squirrel Cage-160 CFM	54.95
Squirrel Cage-200 CFM	69.95
Squirrel Cage-265 CFM	69.95
Squirrel Cage-320 CFM	74.95
Squirrel Cage-465 CFM	79.95
Squirrel Cage-525 CFM	89.95
Squirrel Cage-960 CFM	159.95
Thermostat	19.95
Auto Flo Humidistat	34.95

CO₂ SYSTEMS

CO ₂ Regulator/Distributor	139.00
E.S.U. CO ₂ Generator (up to 500 sq. ft.)	324.00
Johnson CO ₂ Generator (up to 4800 sq. ft.)	499.00

CHARCOAL FILTER SYSTEMS

Skunk Buster #100	109.00
Skunk Buster #200	169.00
Skunk Buster #400	225.00

NEGATIVE ION GENERATORS

Aerease	49.95
Pulsair	99.00



GROWING SUPPLIES

Mylar (Double sided 99% reflectivity)	
4"x50" roll	29.00
4"x100" roll	49.00
Mini Grow House	14.95
Rock Wool	
2"x2" Cubes	20
3"x3" Cubes	39
3"x4" Cubes	49
40 lb Bale	39.00
Rock Wool Slabs	
3'x6"x3"	4.99
3'x8"x3"	6.99
3'x12"x3"	10.99
Grow Bags	
2 Gallon Grow Bag	39
5 Gallon Grow Bag	59
7 Gallon Grow Bag	65
10 Gallon Grow Bag	69
Alka Liche	
1 quart	8.95
1 gallon	16.99
Safer Soap Insect Spray	
8 oz. spray	2.99
8 oz. concentrate	5.75
Roctone Hormone Rooting Powder (4 oz.)	1.69
Jiffy 7 Peat Pellets (2 doz)	2.40
Will Pruf Plant Protector (Keeps leaves from burning)	
14 oz. Spray	5.49
1 pint concentrate	8.99

BLACK GOLD FERTILIZER

All Organic 5 cu. ft.	8.99
Pure Earthworm Castings 20 quarts	13.95

NUTRIENTS

GreenLeaves All Purpose Liquid Nutrient ideal for all stages of growth. Use with soil or hydroponic systems	
12 oz. bottle	3.95
1 gallon	19.95
Super Bloom Liquid GreenLeaves 10-40-10	
12 oz. bottle	5.95
1 gallon	24.95
E.S.U. Dry Concentrate concentrated water soluble fertilizer. 1 meas. per gallon. 1 pound makes 100 gallons	
Grow (20-6-16) Bloom (9-21-12) All Purpose (16-12-16)	
8 oz.	3.95
5 lbs.	19.95
25 lbs.	79.00

ROOTING FORMULA

Great Roots Super liquid rooting formula (with rooting hormones and minerals) 2 part	
13 oz. (1 gal)	14.95

BOOKS

Gardening Indoors	14.95
Beginning Hydroponics	7.95
Hydroponic Gardening	7.95
Hydroponic Food Production	24.95

INDUSTRIAL CATALOG

(\$5.00 refunded with first order from catalog)	5.00
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THE SECRET OF SUCCESSFUL INDOOR GROWING

the easy Hamilton way...

Grow bigger, healthier plants faster.

PROVEN RESULTS: Metal halide and high pressure sodium lights create the highest intensity, best quality sun's full spectrum - indoors. Fluorescent systems are weak, inefficient and do not give your plants enough light lumens for good growth and flowering.

COMPARE & SAVE!

Highest quality products at lowest prices

METAL HALIDE: Best for fast plant growth.

SALE

MH 1000 Watt Deluxe System (Reg. \$238) **\$179.95**
Choice of 24" Horizontal, 48" Parabolic, or MAX-89 reflector. High quality, assembled. QUIET, ventilated ballast box with GROUNDED 5-OUT-LET ON/OFF CONTROL 5amp. PROTECTIVE CIRCUIT BREAKER. 20' lamp cord. high lumen output, 17,000 hr bulb. (Option: Upgrade to G.E. Multi-Vapor with best spectrum, add \$14.00)

MH 1000 Watt Basic System (Reg. \$182) **\$139.95**
High quality, assembled. QU/ET open ballast. 20' lamp cord; socket. high lumen output 12,000 hr bulb. (Option: Upgrade to G.E. Multi-Vapor with best spectrum, add \$14.00)

MH 400 Watt Deluxe System ideal for small area up to 4 X 4 (Reg. \$151) **\$133.95**
24" Horizontal reflector (for MAX-89 or 48" Parabolic add \$9.95). High quality, assembled. QUIET, ventilated ballast box. 20' lamp cord. 36,000 lumen, 20,000 hr bulb. (Option: Upgrade to G.E. Multi-vapor with best spectrum add \$10.00)

MH 250 Watt Mini-Professional System For 3 x 3 area (Reg. \$148) **\$119.95**
Compact, most powerful, mini-horizontal, built-in ballast. 68% more efficient than vertical systems, economical to operate. (HPS 250w Conversion bulb available)

HIGH PRESSURE SODIUM: Increases budding & flowering

HPS 1000 Watt Deluxe System (Reg. \$317) **\$255.95**
Choice of 24" Horizontal, 48" Parabolic, or MAX-89 reflector. High quality, assembled, QUIET, ventilated ballast box. 20' lamp cord, 5KV socket, 140,000 lumen/24,000 hr bulb. Or, most powerful light for flowering.

HPS 400 Watt Deluxe System (Reg. \$215) **\$174.95**
24" Horizontal reflector (for MAX-89 or 48" Parabolic add \$9.95). High quality, assembled, QU/ET ventilated ballast box. 20' lamp cord. 50,000 lumen. 24,000 hr bulb.

MINI-HORIZONTAL: MH 175w OR HPS 150w (Reg. \$119) **\$95.00**
Compact yet powerful. 20" X 10" X 6" electro-white, built-in ballast, economical to operate.

COMBINATION MH/HPS SYSTEM: Perfectly blended lights

Combo MH 400 / HPS 400 Deluxe System (Reg. \$378) **\$299.00**
MH 400 & HPS 400 bulbs under a 24" Horizontal Reflector. QUIET, remote ballasts. (For MAX-89 reflector add \$9.95) (For Combo MH 1000 / HPS 400 Deluxe add \$69.00)

Combo MH 1000 / HPS 1000 MAX-89 System (Reg. \$542) **\$425.95**
Two 1000w bulbs under MAX-89 reflector. QU/ET remote ballasts, etc. Our best system.

Grounded Light Timer, heavy duty, 15 Amp (Reg. \$20) **\$14.50**

LIGHT MOVERS: More light coverage to grow more plants.

Motorized Lite Track™ - Double your light coverage. (Reg. \$99) **\$93.95**
Best single light mover. 6 track covers up to 8' X 10' (EXTENDER for 2nd light \$38.95)

SunCircle2™ - Increases flowering by blending MH&HPS (Reg. \$193) **\$187.95**
Two lights rotate continuously in full circle coverage. 6 X 6 up to 12' X 12

SunCircle3™ - Eliminates hot and dark spots (Reg. \$269) **\$245.00**
Three lights rotate continuously in full circle coverage. 10 X 10 up to 15 X 15

HYDROPONICS: Our customers say their plant yields are three times greater and two times faster with Hamilton's automated "flood / drain" HYDROPRO system. Roots are provided maximum direct nutrition and aeration without soil. No soil pests, no soil odors, no weeding!

HYDROPRO SINGLE™: Ideal for 4 adult plants, min 2 X 2 area (Reg. \$84) **\$68.95**
Includes pump, grow & bloom nutrients, timer, pH test kit, seed starter instructions, etc.

HYDROPRO 4™: Grow up to 16 adult plants. 3 X 9' or 7 X 7 area (Reg. \$199) **\$187.95**
Includes submersible pump, grow & bloom nutrients, timer, pH test kit, Jiffy 7 manual, etc.

NEW HPS BULBS That work in metal halide systems!
1000 Watt (Reg. \$140) **\$134.95** 400 Watt (Reg. \$70) **\$64.95**

CO₂ Enrichment System: Increases growth by 40% (Reg. \$160) **\$129.95**
Includes Regulator, flow meter, solenoid valve, delivery tubes, manual.

FREE INDOOR GARDENING BOOKLET
With any system purchased

ION GENERATORS: Clean growing area of smoke, odors, pollen & pollutants.

AirEase \$49.95 **Pulsair** \$96.50 **Phase3** for max. odor elimination **\$119.00**

DIGITAL pH PEN: Instant accurate reading (Reg. \$97) **\$58.95**

DIGITAL Dissolved Solids (Conductivity) PEN (Reg. \$97) **\$58.95**

ROCKWOOL • GROW & BLOOM NUTRIENTS • MYLAR • BULBS •

TIMERS • BLOWERS • GROWING SUPPLIES, etc. Call for Price.

PRICE SUBJECT TO CHANGE WITHOUT NOTICE

12 **FREE CATALOG**



CO₂



AirEase



Pulsair

HORIZONTAL
32% more light than vertical
Ventilated, adjustable, electro-white
24" X 20" X 6"

NEW
89% more
Light



5% TO 40% DISCOUNT
on all regular prices

MAX-89 - THE ULTIMATE HORIZONTAL
DOUBLE ARC™ for greatest efficiency
available with optional reflector combination

We're #1

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- Highest quality products at lowest prices.
- Large inventory with shipment in 24 hours.
- Reliable service and 5 yr. guarantee (bulbs 1 yr.).
- 30 day money back guarantee.
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14902 S. Figueroa Street, Gardena, CA 90248

ESU

Indoor Sun Chronicle

WINTER 1988

MAJOR BREAKTHROUGH IN CLONING TECHNOLOGY

Energy Savers Unlimited is proud to introduce **GREAT ROOTS**, the miracle liquid formula for rooting cuttings. There is nothing artificial or synthetic about **GREAT ROOTS**. Only naturally occurring hormones and vitamins with the greatest biological activity are used in the preparation. Compounds like indole 3-acetic acid, 6-*r*,*r* dimethylallylaminopurine, and a host of other ingredients including nucleotides, carbohydrates and amino acids, acting in concert to produce the most vigorous and luxuriant roots from your favorite cuttings by physiologically stimulating root primordia to differentiate into root cells. Most other formulations use synthetic hormones like naphthaleneacetic acid or 2,4-dichlorophenoxyacetic acid which do not occur naturally in plants, and besides, are not as effective in promoting the rooting of cuttings.

GREAT ROOTS is a liquid preparation and works best in combination with our **GREENLEAVES** Grow Juice. Together, they provide the full spectrum of hormones, vitamins and minerals for the accelerated initiation and proliferation of roots from cuttings. Because **GREAT ROOTS** is applied directly to the rooting medium, cross-contamination which can occur by dipping cuttings in powders is avoided. **GREAT ROOTS** has been around for quite a few years now, building an awesome reputation as the most effective rooting formula by a steadily increasing number of satisfied users. ESU felt it was time to give serious growers an opportunity to benefit from this superb product.

1 gal 295.00 1 qt 99.00 8 oz 45.00 1 oz 14.95

Comes with one, 12 oz. bottle of **GREENLEAVES** Grow Juice

GREAT ROOTS is used only for the initial application. For subsequent feedings only 1 oz./gallon of **GREENLEAVES** Grow Juice is used.

GREENLEAVES CELEBRATES 10TH BIRTHDAY

GREENLEAVES Grow Juice (14-7-20, expressed wt/wt) was the first liquid hydroponic nutrient ever to be packaged in a single container. It has been around for so long because it is the most effective and incredible soil and hydroponic nutrient available anywhere. Sales have been doubling every year as more and more people become regular users. **GREENLEAVES** Grow Juice is carefully and painstakingly prepared by blending and aging dozens of ingredients at different pH and temperature conditions. Not even the most celebrated vintage wines are prepared so meticulously! The finished product is well worth the effort. It looks like liquid gold and performs even better. Besides containing all of the major, secondary and trace nutrients that are essential for plants, **GREENLEAVES** Grow Juice also contains a built-in pH monitor for easy visual assessment and correction of pH without the use of expensive pH meters or test kits. People drive over 1,000

miles to ESU to load up their trucks with 55 gallon drums and 5 gallon jugs of **GREENLEAVES** Grow Juice. Get some today and prove to yourself that there really is nothing better, or even half as good. Recommended dosage is one ounce per gallon.

5 gal 85.00 1 gal 19.95 1 qt 8.95 12 oz. 3.95

ESU HAS MADE IT POSSIBLE TO GROW MORE BUDS

GREENLEAVES Budding Juice (12-40-24, expressed wt/wt). Made with the superb **GREENLEAVES** Grow Juice, but loaded with extra phosphate and potassium. And to increase budding efficiency, extra trace elements and special budding hormones have also been added. The formula should be used during the budding stage to unlock the full budding potential of plants. Your plants will bud like you never dreamed was possible. Recommended dosage is one ounce per gallon.

5 gal 99.00 1 gal 24.95 1 qt 9.95 12 oz. 5.95

pH PROBLEM WITH ROCKWOOL SOLVED

Because rockwool is naturally alkaline, it tends to raise the pH of nutrient solutions in hydroponic systems. Addition of sulfuric or phosphoric acid corrects the problem, but only temporarily. Influenced by rockwool, the pH again starts to climb rapidly. ESU has solved the frustrating problem of fluctuating pH by developing a specially buffered pH reducer which resists pH changes for prolonged periods. ESU has prepared separate pH reducers for the grow and bloom cycles so as not to disturb the delicate nitrogen and phosphorus-potassium balance during the critical stages. These pH reducers work great with all hydroponic systems.

ESU pH Reducer - Grow Cycle

5 gal 85.00 1 gal 19.95 1 qt 8.95 8 oz. 3.95

ESU pH Reducer - Bloom Cycle

5 gal 85.00 1 gal 19.95 1 qt 8.95 8 oz. 3.95

ESU DEVELOPS VITAMIN AND HORMONE BASED ENERGY BOOSTER FOR PLANTS

Plant scientists at ESU are continually coming up with brilliant applications for well established scientific principles. Take for example, the **ESU PLANT STIMULANT**. Used once or twice a week during the grow and budding cycles, the **PLANT STIMULANT** provides plants with essential hormones and vitamins to efficiently utilize the high light intensities and increased carbon dioxide levels used by expert growers. Try this product for amazing results. Recommended dosage is one ounce per gallon.

5 gal 85.00 1 gal 19.95 1 qt 8.95 8 oz. 3.95

ESU TO MARKET INEXPENSIVE HYDROPONIC UNITS THAT CAN GROW PLANTS UP TO TWELVE FEET AND TALLER!!

Finally, someone has developed a hydroponic unit that is inexpensive, efficient and unbelievably easy to use. Based on the time-tested wicking principle, the

hydroponic units developed by ESU utilize a vermiculite/perlite growing medium which provides excellent capillary action and aeration. The hydroponic units can be used individually or interconnected and fed through a common nutrient tank. By using flexible tubing to form interconnections, it is possible to have a variety of configurations to maximize space and light utilization. The unit comes complete so that it is ready to use. ESU also throws in a 12 oz. bottle of **GREENLEAVES** Grow Juice so you can get all the benefits of the best hydroponic system available.

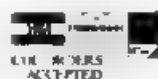
1 hydroponic unit	29.95
4 units	99.00
8 units	179.00

CLONING MADE EASY-DESK TOP TISSUE CULTURE LAB DEVELOPED BY ESU

You won't believe it, but ESU has developed an innovative and fresh approach to cloning technology. Now, you can clone your favorite plants using state-of-the-art tissue culture techniques, which, so far, have only been the privilege of university research labs. Using the methods developed by ESU, you can literally clone hundreds of plants from a tiny little leaf section of your favorite plant, without having to destroy the plant by removing too many cuttings. You never have to worry about vigor or genetic characteristics. The plants you clone will have genetic traits that are identical to the parent. The complete tissue culture lab includes a laminar flow hood to create a sterile work area, presterilized test tube slants containing agar-based multiplication and rooting media, instruments and chemicals to successfully carry out cloning procedures.

Complete lab	1,995.00
Additional test tubes with sterilized media for stage I (multiplication) and stage II (rooting)	1.95 ea

ORDER TODAY.
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INSIDE CALIFORNIA 800-538-3400

And of course all ESU products have a money-back guarantee if you're not absolutely astounded by the results.

Prices do not include shipping. CA residents add 6 1/2 % tax.
Energy Savers Unlimited, Inc.
22138 S. Vermont Bldg C Torrance, CA 90502



YEAR OF PROTEST!

Upon being fired for a piss test the other day, a question occurred to me: Will piss test labs ever become the targets of frustration that abortion clinics became a few years ago?

—J. Falwell

St. Augustine, FL

Hey, gang, J.F. has got a great idea. Let's find out where those labs are and organize some protests!

RUDE AWAKENING

Fifteen months ago I was totally against the use of drugs. I went around preaching to my fellow high school students about the horrors of drug use. Then about a year ago, I saw your magazine and decided to buy an issue. Later that night, I sat down and began to read, expecting a poorly written piece of trash. What I found was quite the opposite. Your magazine impressed me. Since that time I have begun smoking pot and I find its effects very enjoyable. I have also begun expressing the view that marijuana should be legal. I owe your magazine a great deal for correcting my views and I hope you continue to keep up the good work.

—The Rebel

Orlando, FL

Although cannabis is one of the safest drugs known to man—safer than alcohol, nicotine, caffeine, or aspirin—it must be treated with respect. HIGH TIMES does not encourage the use of cannabis by high school students. Your letter was very heartwarming to us, but minors should concentrate on developing their minds first. Psychedelic mind expansion is best left until after graduation.

DRIVE, HE SAID

I would like to reply to Hank of Kingston, New York, who wrote a letter in the December '88 issue complaining that potsmokers should not be allowed to

LETTERS

drive cars. I suggest you get a copy of the June 1980 issue of *Car & Driver* magazine. On page 43, there is a test in which three professional test drivers first drove a road course straight after a couple of tokes, and then completely stoned. The result? Test driver Mike Ceppos reported that "no matter how much I smoked, my hand-eye coordination suffered hardly at all." The magazine's conclusion? Well, they tried hard to concur with the government's official stand, but had to be honest: "Our tests revealed no difficulty in driving, no deterioration in driving skills... in fact, all the data we could lay our hands on tell us marijuana not only doesn't impair driving ability, it can sometimes improve it." Oh yes, all the drivers' times improved after smoking and they hit less pylons each time. And those are the facts.

—Sayten DeDebel
Hell, MI



PEYOTE SEEDS

In response to the article by Robert Miller about peyote, he stated that "its growth is restricted to the southernmost limits of Texas..." Well, that's not completely true. It grows along the banks of the Rio Grande (or at least it did at one time) and as far north as Taos, New Mexico. Also, he mentioned not being able to find any in Texas after a week of searching. After reading the article, I decided to go searching. I found some in the first place I looked. I won't mention where, but I will say it was along the Rio Grande in west Texas. Enclosed is a picture to prove it.

—J.G.H.
San Antonio, TX

In September '88 you ran a story on peyote that mentioned seeds could be ordered from a company in England. Mushrooms and LSD are growing

tiresome and a new psychedelic high is desired. Could you tell me how to obtain peyote seeds?

—J.B.
Greer, SC

We don't have the answer. Are there any vendors out there who have had any luck ordering peyote seeds from England?

NO RESPECT!

On September 12, 1988, four friends and I sat at my kitchen table and wrote letters to our Congressmen expressing our great opposition to the current marijuana laws. The moral of the story? In our fight for freedom, we won't gain any ground until we learn to flex our political muscle and force these guys in Washington to respect and represent us.

—No Respect In
Thompson, CT

We hope all our readers join you and write their representatives in Washington. Now that you've become politicized, how about joining the cannabis protest movement? There are two ways you can help: first, come to the Hash Bash in Ann Arbor, Michigan, on April 1st (see ad on facing page); second, join the HIGH TIMES Freedom Fighters (see ad on page 84).

POLYMER POTS

Why must my intelligence be insulted? Dr. Zee's article on polymers (Dec '88) was very interesting, but somebody slipped. Two plants were pictured in the article: one with polymers, one without. Although the plant with polymers looked much more healthy, even the dimmest of us quickly noticed a big difference in the size of the pots.

—Bud Sweet
Watertown, NY

After we received the article by Dr. Zee, we checked out the polymers in houseplants, and noticed they did have a beneficial effect, especially on those plants with delicate watering needs. Based on those results, we decided to run the article. As for the large container—it isn't necessary. Polymers work fine in regular size pots.

continued on page 68

HASH BASH '89

ON APRIL 1ST, 1989,
THE YEAR OF PROTEST BEGINS

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THIS YEAR, UNPRECEDENTED NUMBERS OF PEOPLE WILL DEMONSTRATE AGAINST THE WAR ON DRUGS. THE OMNIBUS DRUG BILL THREATENS EVERY POT SMOKER'S SOCIAL SECURITY BENEFITS, DRIVER'S LICENSE, PASSPORT PRIVILEGES, AND BANK ACCOUNT-A FINE OF **\$10,000** CAN BE IMPOSED FOR POSSESSION OF A SINGLE SEED! YOU CAN'T AFFORD NOT TO GET INVOLVED IN THE MOVEMENT TO LEGALIZE MARIJUANA.

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ON THE
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AT THE
UNIVERSITY
OF
MICHIGAN
AT
ANN ARBOR



APRIL 19, 1989
AT NOON
ON THE
QUAD
AT THE
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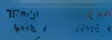
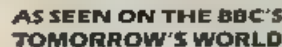
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[illegible]

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APR '89 HIGHWITNESS NEWS No. 164

POT AND THE CANCER PATIENT

by J.W. Spector

Millions of marijuana smokers have experienced the "munchies." But for Rick Morris, a cancer patient in Staffordsville, Kentucky, pot before dinner has become a matter of life and death.

After two years of radiation therapy and chemotherapy for brain tumors, lung and liver cancer, Morris, 32, says pot is the only thing that turns on his appetite. Not only have the therapies destroyed his salivary glands and hypothalamus—the part of the brain that controls eating—but Morris suffers from constant nausea.

Morris' fight is not only against cancer. He's also battling the law. While two glaucoma patients in the US are currently smoking pot with the Federal government's permission—pot helps to reduce the swelling behind the eye caused by glaucoma—Morris is the first cancer patient to be arrested and live long enough to challenge his state's marijuana classification in court. He was tried last year in Eastern Kentucky US District Court after being charged with misdemeanor possession of 7½ ounces. Fined just \$1, the case was widely heralded as a victory for Morris and other "medical marijuana" smokers.

Not so, says Morris and his attorney. Morris wants his pot returned from the sheriff's safe and has filed an appeal in circuit court to overturn the guilty verdict. "We want marijuana declared a Schedule 2 drug instead of a Schedule 1," says Morris' attorney, Ned Pillersdorf. "In our brief, we said marijuana is misclassified in Kentucky so as to deprive Rick of his due process rights of life, liberty and property."

For Morris, life, liberty and property are secondary concerns to nausea, vomiting and diarrhea. "Sometimes I want to croak," he says. "I can go as much as two weeks without eating." Morris continues to take potent chemotherapy drugs to combat the spreading cancer, and even with pot, he can only muster enough of an appetite to eat once a day, at night.

During his stay at St. Joseph's Hospital in Lexington, Kentucky, his

continued on page 25



RICK MORRIS: The Medical Marijuana man.

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REEFER MADNESS, ARKANSAS-STYLE

by Lois Glover

Shortly after teenagers Kevin Ives and Don Henry of Bryant, Arkansas were found dead on the tracks of the Union Pacific railroad on the morning of August 23, 1987, Arkansas state medical examiner Dr. Fahmy Malak concluded that the cause of death was marijuana intoxication. While "unconscious and in deep sleep on the tracks, under the psychedelic influence" of marijuana, the train, Malak reported, simply passed over the youths and killed them.

Although they admitted that their sons may have used marijuana, neither Larry and Linda Ives nor Curtis and Marvelle Henry, the youths' parents, bought Malak's conclusion—that each boy had smoked approximately 20 joints before they were struck by the train at 4:30 A.M. on August 23. Several weeks later the parents obtained a court order to get tissue samples and test data from the autopsies. They hired a private investigator and began their own search for the truth.

Because the deaths had been ruled accidental, there had been no in-depth

investigation of the death scene or circumstances surrounding the incident. When members of the train crew were questioned, conductor Jerry Tomlin testified that the upper portion of the boys' legs were covered by a green tarpaulin. After the accident, he said that he saw the tarp below the trestle near a creek. The investigators found no tarp. Both boys were laying on the tracks in identical positions with their .22 caliber rifles next to them on the track. (They had been hunting the night before.) According to engineer James Stroyer, the train approached the boys at about 50 miles per hour and had its light on the brightest setting. Horns and bells sounded for two miles before striking the boys.

When tissue samples and other information were finally obtained from the Arkansas Crime Lab, they were given to Dr. Arthur J. McBay, chief toxicologist for the State of North Carolina and professor of pathology and pharmacology at the University of North Carolina. Dr. McBay, who has been involved in extensive marijuana research, questioned Malak's expertise on the issue of marijuana use. McBay said, "I don't believe it. Marijuana

doesn't make you unconscious and go into a deep sleep. When I see this kind of result, it's usually from someone who doesn't know a damn thing about marijuana or the testing."

In February 1988, Saline County Deputy Prosecuting Attorney Richard Garrett agreed to a prosecutor's hearing (which is similar to a grand jury investigation, but is open to the public). Forty subpoenas were served.

During the hearing, Malak explained that "the job of the State Medical Examiner is more than to find the cause of death. We have a social message. to tell the kids, our children, 'Stop marijuana. Say no to marijuana. Say no to drugs.'" Malak also charged that the deaths would be homicide if the members of the train's crew were found to be under the influence of drugs at the time.

In response, Jerry Tomlin, the train's conductor, said: "I will go with him and be tested 365 days a year, 24 hours a day, anytime he chooses; then we will go to the State Hospital to have him tested for a brain."

In March, Garrett petitioned the Saline County Circuit Court to have the bodies of the boys exhumed, and called for a grand jury investigation on the

BARTOS



"Sorry boys, times are tough. We'll have to hold you to the same servings as last time."

both bodies. Ives, who was 17, had swelling around his left eye and cheek, he suggested the wounds were the result of being struck by a gun butt. The impact of the train would have instantly stopped the swelling, Burton said. Henry, who was 16, had a stab wound in his back. Both boys had fluid in their lungs, which indicated they had breathed blood into their lungs. This would not have occurred in an instantaneous death, such as being struck by a train. Burton stated, "The fact that in the face of a very loud train whistle there was virtually no type of movement. Indicates there was more involved than just the small amount of marijuana found."

Meanwhile, on December 28, 1988, the Saline County grand jury ended eight months of investigation. The jury, which had already declared the deaths of Ives and Henry to be homicides, added that the boys' deaths "were definitely the result of foul play." But it failed to bring any murder indictments.

"We urge law enforcement agencies and the prosecuting attorney's office to continue the investigation into the deaths of Don Henry and Kevin Ives," the jury demanded. Hopefully, the search for truth in Saline County, Arkansas will continue.

All information in this story courtesy of the Arkansas Democrat. ●



KEVIN IVES: Death by homicide, not pot.

findings of the prosecutor's hearing. Both requests were granted. The bodies were sent to Dr. Joseph Burton, an Atlanta pathologist, for further autopsies and tests. In a preliminary statement made shortly after performing the autopsies in April, Burton reported that the youths were not in a marijuana-induced sleep when struck by the train. He said Ives and Henry had smoked only three or four joints before their deaths.

Burton's final report, issued in October, was startling. He concluded that signs of murder were clearly visible on

LAWYERS GET DOWN IN FLORIDA

On December 8, the NORML Legal Committee convened its winter conference in Key West, Florida. The conference was held to exchange information regarding the defense of drug cases, not legalization. My impression was that the majority of attorneys present spent most of their time defending cocaine defendants, mafia families and rapists. A few marijuana lawyers were also sprinkled throughout the crowd.

Among the numerous seminars, these were the highlights:

- Alan Silber and Josiah Thompson talked about "The Investigation, Care and Feeding of Rats," demonstrating how a sleazy government witness can be destroyed on the stand.

- William Rittenberg and Gary Trichter discussed some of the work they have done to combat profile searches. They

showed how they set up a profile car as a mode bust. To prove that a cop used a profile to stop a client, Trichter used the bait car to trap for an arrest.

- Lee Ruslander, Jim Woodford and yours truly discussed the use of expert witnesses in the defense of marijuana cases. Experts can be used to help courts determine weight, yield, intent, type and value of marijuana. Special witnesses can also be used for garden fingerprinting, drug testing and a host of other issues.

- Roger J. Dodd lectured on "The Only Three Rules of Cross Examination." How can you build a solid chain of yes or no answers during cross-examination? Never ask a question you don't know the answer to. Ask only one question at a time. Never ask a question before it is time.

—Ed Rosenthal

BY DEAN LATIMER

ONE MAN'S DOPPELGÄNGER

THE SINGAPORE SOLUTION

For all us natural-born drug-research drudges, the issuance every other autumn of the latest juggernaut Omnibus Anti-Drug Abuse Act has become a feast to look forward to—with avid anticipation—and back on afterward—with fond, smug, full-bellied gratification and repletion. Every other November is also the time of a national election (either Presidential or Congressional), and each one of these carnival events throughout the '80s has been preoccupied with hebephrenic anti-drug hysteria. It gets more glorious with each successive election, as liberal and conservative legislators alike desperately compete to see who can draft up the most ferocious, retributive, steel-trap, druggie-punishing legislation, which they then carry back to their hustings in November.

Every election year then, very late on the day of the vote on that season's Anti-Drug Abuse Act—well after the evening's network news has been aired, and off in some secluded location like the House Speaker's Dining Room—joint workshops of professional attorneys and Senate and House staff lawyers toil far into the early morning hours, pruning and sanitizing all this righteously draconian election-year dope legislation before it's actually voted on, so that not too many outrageously unconstitutional statutes actually get on the Federal lawbooks the next day. Thus the vote-grabbing legislators get to arouse the public all October by promising vengeful, extra-constitutional legislation targeted specifically at punishing people who take drugs, and since the media never notices how very few of these horrendous anti-dope laws actually make it onto the books, American citizens go to the polls believing they're voting for (or against) some pretty nasty, kick-ass, anti-drug politicians.

Whenever one of these fearful Omnibus Acts is published every other November in the *Congressional Record*, it has become a special drudge's treat to finger lovingly through its pages, picking out the unconstitutional sections that were missed in the last-minute editing. This time they missed a few good ones. For example, believe it or not, a mechanism is now technically in place to round up everyone who takes any sort of dope, herd us into prison camps without trial and subject us to any old sort of medical experimentation in order to "cure" us of our deviant tendencies. We might all be there right

now, in fact, if daffy old outgoing President Reagan hadn't sort of forgotten to get the ball rolling on this project.

Remember that this is the law of the land. Within a year from last November, ordains the Omnibus Act of '88, the Department of Health and Human Services (HSS) is required to produce a research paper "determining the relationship between mental illness and substance abuse." The National Institute on Mental Health will probably execute this one—a treatise authored by a doctor which will essentially say that anyone caught with illegal drugs or donating a "dirty" urine sample qualifies for an automatic diagnosis of "mental illness." The Act also calls for HSS to work with "an independent body [the American Association for the Advancement of Science's Institute on



JOHN HOLMSTROM

Medicine, most likely] to conduct a study of the current use of involuntary commitment for inpatient treatment of mental illness." Once all of this is done, we can all be taken into custody by civil procedures, without annoying and expensive trials, defense lawyers, presumption of innocence or any of that liberal twaddle.

In drug-enforcement circles this is called the "Singapore Solution": Clap us all in some "drug-treatment" stalag, like the famous King Rat slam in Singapore, and watch us try to get ourselves back out without lawyers. In the Reagan Administration, the loudest Singapore Solution proponents were Drug Policy director Dr. Carleton Turner and his sidekick in the "parents power" phalanx, Dr. Ian MacDonald, who is still chief of the Alcohol, Drug Abuse and Mental Health administration. Though neither of these guys was exactly a heavyweight in the treatment field—Turner's Ph.D. was in biochemistry, and MacDonald is a pediatrician—no one in Congress had

the balls to seriously oppose their Singapore Solution lobbying. To his eternal credit, House Narcotics Committee chairman Charles Rangel (D-NY) did once, at a 1987 hearing, suggest archly to MacDonald that the civil confinement of hundreds of thousands of druggies might be a tad problematical. "You are a pediatrician," Congressman Rangel wryly told the South Florida baby doctor, "but I will tell you, you don't go to jail with doctors asking you to come along."

But the Singapore Solution proponents were cannier than Rangel gave them credit for. The actual implementing legislation for this project is buried deep within the body of the 250-page Act of '88, specifically in Section 7302 of Subtitle G of Title VII (an ordinance labeled "Administration of Confinement Facilities Located on Military Installations by the Bureau of Prisons"). This statute, which is the law of the land as you sit reading this, goes like this:

"In conjunction with the Department of Defense and the Commission on Alternative Utilization of Military Facilities as established in the National Defense Authorization Act of Fiscal Year 1989, the Bureau of Prisons shall be responsible for—

(1) administering Bureau of Prisons confinement facilities for civilian nonviolent prisoners located on military installations in cooperation with the Secretary of Defense, with an emphasis on placing women inmates in such facilities, or in similar minimum security confinement facilities not located on military installations, so that the percentage of eligible women equals the percentage of eligible men housed in such or similar minimum security confinement facilities (i.e., prison camps);

(2) establishing and regulating drug treatment programs for inmates held in such facilities in coordination and cooperation with the National Institute on Drug Abuse; and

(3) establishing and managing work programs in accordance with guidelines under the Bureau of Prisons for persons held in such facilities and in cooperation with the installation commander."

Suddenly, the Singapore Solution looks a lot more feasible, doesn't it? Instead of one globally-notorious King Rat drug-rehabilitation gulag, the government simply converts a few of those old decommissioned Army bases the Pentagon defunded last winter into widely-scattered detention camps, where regional druggies can be remanded a few at a time through civil-confinement procedures. And they'll be brought in two by two, men and women together in equal proportion, and subjected to medical therapies by the National Institute of Drug Abuse.

(NIDA)—therapies that will be necessarily experimental, because most of them will be strung out on crack, and there's no recognized medical treatment for cocaine addiction.

The Federal Bureau of Prisons (BOP), to its credit, is not exactly gung-ho about this ambitious project. When the BOP went to Congress last summer to claim some of that military property the Pentagon was dumping, journalists were told the BOP was only quite legitimately seeking more minimum-security space for the 44,000 Federal convicts who are currently languishing in just 28,000 Federal prison spaces. Vigorous enforcement of all the anti-drug legislation that's been passed in the '80s has hiked the Federal prison population by 85 percent since Reagan took office in 1981, most of the new cons being nonviolent transgressors of drug laws, eminently qualified for minimum-security lodgement. The BOP is only looking for jail space, they'll emphasize, all this civil-confinement and drug-rehabilitation business is someone else's initiative.

As for NIDA, the Institute perceptibly cringes when asked about prison-camps. NIDA was merely lobbying Congress last summer for any old lab gear and ward space the Pentagon might be abandoning when it closed those bases down, its spokespeople will insist. No one at NIDA is the least bit eager to talk about the novel drug-rehabilitation schemes they've been commanded by Congress to devise. In 1935, when the Federal prison system was bulging with drug-law violators (convicted under the famous Harrison Narcotics Act), the BOP shipped convicts by railroad cars to the custody of the Public Health Service's Addiction Research Center (PHS), which concentrated them at the infamous Lexington Narcotics Farm in Kentucky. Since, back then, there was no more of a "cure" for heroin addiction than there is now for crack, the PHS addiction researchers were fain to perform all sorts of dramatic medical experiments on this population of junkies, before they finally, in the '60s, discovered methadone. Along the way, they liberally applied such "therapies" as prefrontal lobotomy and electroshock on the nonviolent drug abusers in their custody. Some of those same human-experimentation PHS doctors are still employed at NIDA and they're not the least bit eager to have any of that remembered.

Still, since NIDA has been commanded by Congress to undertake all this work, they're bound to find someone to do it, even if they have to surreptitiously let out the "research and development" contracts through the BOP. That bureau, for all its taciturnity when speaking to self-identified drug-

magazine journalists, is sincerely hell-bent on copping those old military bases, and will work to that end even if it requires expanding its traditional correctional services to include hands-on "drug rehabilitation therapies."

For a drudge like me this is a better dessert than maple-walnut ice cream. To get the real lowdown, you have to go back to the library and look up the *Congressional Record* for 29 September 1988, a month before that election year's Omnibus Act was resoundingly passed by Congress, and check out its line-by-line wording.

You will find it way, way toward the back in Title XXVIII "General Provisions," Part B, "Miscellaneous," Section 2819, "Commission on the Alternative Utilization of Military Resources." The first line reads: *"Within 30 days after the date of the enactment of this Act, the President shall establish a Commission on the Alternative Utilization, etc."* The Department of Defense (DOD) is directed to go into partnership with the BOP, NIDA and the General Services Administration (GSA) to locate old Army bases that could be used "as minimum security facilities for nonviolent prisoners," and as "drug treatment facilities for nonviolent drug abusers." The Commission is to report its activities to the President no later than 1 October 1989. And that's the law of the land.

It took three weeks of daily phone calls to the Pentagon's public-information office last January before anyone there could locate anything on paper about this new commission which Congress had legislated for them. The "Alternative Utilization" commission was not a DOD initiative, I was told firmly and repeatedly, and the DOD was not about to budget a farthing for it. "Anyway," Major David Super said sort of offhandedly, "we'd have to wait until the Executive Order creating the commission is signed by the President."

Ronald Reagan was still President on the day Major Super said that. A subsequent call to the White House public-information office turned up a perplexed young woman who could clearly recall hearing people speaking of this commission a few months before, but who could find nothing about it on her computer console there. She recommended the White House Clerk's office, where a clerk dutifully tapped a request into her own computer, and came up with the news that no such Executive Order to create any such sort of joint DOD-BOP-NIDA-GSA commission had ever even been drafted, much less signed.

"Within 30 days of the date of the enactment of this act," commands the Defense Authorization Act of 1989, *"the President shall establish a Commission*

on the Alternative Utilization of Military Facilities. . . ." And he simply didn't. Ronald Reagan, riding off into the California sunset, left this one nasty bit of work undone, and once again flouted the will of Congress.

"It's hardly impeachment material," chuckled one Congressional aide, upon hearing how this particular swatch of extra-Constitutional drug legislation—which had actually made it to the lawbooks—had been extinguished after the last minute by Presidential inattention. "If no one impeached him for pretending to forget about signing the Executive Order authorizing the transfer of illegal Iranian arms money to the drug-running Contras," explained the aide, "nobody's going to take out after him for forgetting to sign this one."

A LETTER FROM THAILAND



Back in June John Eder told *HIGH TIMES* readers that Karl Most's serving a long jail sentence for drug smuggling in Thailand. Eder asked people to write Most at the Bangkok Maximum Prison in Nonthaburi. On Christmas Day, Most penned the following letter to *HIGH TIMES*.

This prison is a very depressing and sad place. It leaves one very lost and bewildered as to reality as once knew it in America.

No hot water, no beds, no toilets, no showers. Rados and TVs? Ha! One must pay for food and clothes and any other items causing financial problems as well. It cost me \$32 for a spot in building #1 Mycel, which was built for 10 people or less, now holds more than 20. We sleep on mats spread out on the floor. It's very hot and the air is very stale. Nothing inside is free other than the smell of raw sewage, lots of time and bad cop-ons.

I was sentenced to 33 1/2 years for possession of heroin, of which 58% was Fab washing powder. Since this was not my line of work, I couldn't tell the difference. No matter. Entrapment is legal here, just like the American DEA does all the time.

Life is very hard here, so please keep writing. Your letters and assistance have done a great deal for me.

Karl A. Most II
Bangkok Maximum Prison
Nonthaburi, Thailand 11000

JON GETTMAN

NORML
NATIONAL DIRECTOR

NORML-IZE R

Beating Around the Bush



George Bush, our new President, likes talking about "a thousand points of light." In his inaugural address he expanded on this election theme and praised the thousands of Americans involved in community activism—volunteers and public servants who give America her self-worth and dignity.

Like Jimmy Carter did 12 years before him, Bush spoke of the limits of what government can do, and referred to a new breeze of citizen activism spreading across America.

You would almost think he was talking about us.

Bush also spoke of leaving the Vietnam War behind us, and involving America's young in the leadership of our society. These are fine intentions, and despite other political differences, we ought to give credit where it's due. We have always been proponents of limited government, of volunteer activism, and we share Bush's commitment to citizen involvement as a way of turning America's vision away from past political conflicts toward helping the needy in our society and around the world.

But until the marijuana question is resolved, Bush's best intentions will remain rhetorical and unrealized. It is one thing

to recognize the shared principles that might lead to compromise; it is another to make it happen. For Bush to heal the nation's wounds and involve young people in the leadership of America, he must be willing to compromise with those young people on the marijuana issue, which is so important to many of them.

It may be comforting that Bush is coming around to our point of view, at least rhetorically. But our job is to call his bluff, to demonstrate that we deserve respect—not to mention justice—for our work involving citizens in the debates and discussions which affect their lives. In reality, the lack of citizen involvement in marijuana policy—that is, of the involvement of citizens who use marijuana—is what accounts for that policy's continual failure.

The fact that George Bush shares some of our vision doesn't mean that we can make progress by talking or writing about our goals using his terms. Nor does it mean that we can't continue to satirize the man's rhetoric or positions. After all, in our situation, who can resist having some fun with "a new breeze" and "a thousand points of light." Still, we must get beyond the rhetorical fun and demonstrate that we're doing just what the Pre-

sident called for. Only prejudice and bigotry can explain why we are being denied justice.

As long as marijuana remains an abstract intellectual issue, we will remain criminals. Conceptually, Americans don't want to assume responsibility for the legal availability of marijuana. To so many, legalization means approval of marijuana use. Our job is to change their minds.

We have to force the issue, and we do this with bodies marching in the streets. It's old-fashioned, perhaps a bit crude, but it works. Our problem is that George Bush doesn't care that Americans are unjustly sent to jail for marijuana offenses. He thinks that this is a small price to pay in order to address a bigger problem—cocaine addiction. Our job is to make the illegality of marijuana a bigger political problem for the President and other incumbent politicians than anything else they are confronted with.

We must not make the mistake of letting our moderate positions dictate a moderate strategy. Eventually, we will have to negotiate an end to the war on marijuana. History shows that you get what you want when you negotiate from strength, rather than from mere moral superiority.

Strength comes from the deft use of power. Power, in our democracy, derives from the ability to mobilize and utilize widespread public support. Influence, for the marijuana movement, will come when we can get enough bodies in the streets, all over the country, to force our opponents to listen to and respond to our arguments and our grievances.

This is an American tradition. It is essential that our fellow citizens realize that our movement is not based on a selfish desire for legal pot, but on the desire to seek redress from injustices at the hands of our own government.

In the past, I have written about the politics of cooperation being superior to the politics of confrontation. I still believe that cooperative and constructive approaches are the way to earn the public's respect. But this doesn't mean we can do without a bold strategy.

Even though we compete in more social arenas than legislative ones, this is still, in the grand sense, politics. We must remember that we are the opposition. Benjamin Disraeli, a great English politician and Prime Minister during the 19th century, was the first statesman to master systematic opposition to government policies as a reliable path to political power. Whatever the merits of the government's proposals, when Disraeli was in the opposition, he found something wrong with it, something to attack.

Disraeli fought in the House of Commons. We fight in the American public arena, with our fellow citizens as spectators. No matter what the arena, the art of persuasion and politics remains the same.

In recent times, a case can be made that the national party always beats the philosophical party. This is the case in Great Britain, as shown by the ascendancy of Margaret Thatcher, and the case in America, as Republican victories in five of the last six presidential elections demonstrate. Generally, conservatives in both countries have successfully portrayed themselves as the national party and their liberal opponents as ideologically tied to abstract doctrines that are out of step with national traditions. Bush's recent victory over Michael Dukakis is yet another example. Rightly or wrongly, Bush successfully branded Dukakis as being outside the mainstream of American values, wedded to an abstract philosophical liberalism.

The American people are more receptive to change when it is carried out in deference to national customs, rather than abstract principles. Conservatives have seized the mantle of the national party, but Roosevelt and Kennedy, among others, were able to successfully claim liberalism as a part of the national heritage.

Our strategy is to fix the marijuana movement in the minds of the American people as a national, rather than a philosophical, movement. We need to accumulate enough influence, respect and recognition to establish that our goals are within the mainstream of the American heritage, and that no party can claim to be a national party without us.

We will earn the respect of our fellow citizens not by being meek or cautious, but by demonstrating that marijuana law reform is consistent with the manners, customs, laws and traditions of the American people. The tradition of fighting for your rights is one we haven't addressed sufficiently in the past. The American people respect those who stand up for themselves. It's not a matter of belligerence or arrogance, it's a matter of self-respect. They won't pay serious attention to us until we stand up straight and look them in the eyes.

By now you have an idea of what NORML wants to do, what I want to do, what ideas and values are important to us, and what the government wants to do to you (that is, put you in jail). So when you hear Bush talk about "a thousand points of light," remember that pot-smokers are 50 million points of light that need to be seen in America. ●



NOVAK SAYS 'YES' TO NANCY

by Brian Silverman

Sometimes, when I have been high, I have felt like a visitor to another land, a land both familiar and new at the same time, only inches and moments away from land I normally inhabit, but also remote—and uncharted on any map I consulted.

—William Novak
High Culture (1980)

The man who equated getting high with an extraterrestrial trip has recently been paired with the woman who said, "If you're a casual drug user, you're an accomplice to murder," to write her memoirs. The woman is former First Lady and leading anti-drug crusader, Nancy Reagan. The man is bestselling "ghostwriter," William Novak.

Ten years ago, on the eve of the Reagan Presidency, William Novak was preparing a book on the marijuana experience. While researching *High Culture: Marijuana in the Lives of Americans*, Novak said, "I'm not neutral. Marijuana has a wide, unexplained potential for good effects. It has always interested me because it has done exciting things to me and my friends."

High Culture was published by Alfred A. Knopf in 1980, and again in 1987 by the Cannabis Institute of America (CIA Publishers, Box 309, MA 02139, \$7.95). The book is a study of the effects of marijuana, based on 300 interviews with a cross-section of smokers. In the introduction, Novak explained his reason for writing *High Culture*: "I hope to provide a realistic understanding of what being high is like, in a way that makes sense to the experienced smoker and to the person who has never tried marijuana."

In its review, the *New York Times* said *High Culture* was "a well written and very readable compendium...a persuasive and, on the whole, positive

study." Despite other favorable reviews, *High Culture* did not sell well. At the time, Novak quipped: "This book died and didn't go to heaven."

Ironically, the Reagan era was very good to Novak. After *High Culture*, he teamed up with Chrysler CEO, Lee Iacocca, to write the auto tycoon's hugely successful autobiography, *Iacocca*. His latest credits include *The Mayflower Madame* (with Sydney Biddle Barrows) and last year's *Man Of The House*, Tip O'Neill's bestselling memoirs.

With his string of successes, Novak has become the most desired "ghostwriter" in publishing, and when Random House announced in 1986 that it would publish the long-anticipated autobiography of the stargazing First Lady, Nancy Reagan, the search was on for a collaborator. The choice was Novak. And to this plumb assignment, he said a resounding "yes."

When asked to comment on the obvious disparity between Nancy Reagan's anti-drug philosophy and his history as a chronicler of marijuana smokers, Novak admitted there was a conflict. He told *HIGH TIMES*: "I decided until this book comes out, I'm not going to talk about the other book (*High Culture*). Nancy Reagan is my client and I don't want to do anything to embarrass her. Even if I would comment, I would not have much to say on the subject. I haven't kept up very much with the field. I haven't done research in years."

When asked if he stood by what he wrote in 1980, Novak said, "I don't know if I stand by it or not. I'm sure I would write it differently today. The whole climate is different. But I don't repudiate it and I hope people learned from it. *High Culture* was something I did ten years ago. I'm doing different things now."

For the man who visited "another land" under the influence of marijuana, his strangest trip has just begun. ●

CANCER

continued from page 19

doctor and nurses told him it was common on the cancer floor for patients to get high. Morris also learned that a fellow cancer patient, the late mayor of Paintsville, had pot brought to him while he was hospitalized.

Says Pillersdorf, who has so far charged Morris a \$1 fee: "What really struck me was something Rick told me: other chemotherapy patients, the vast majority, smoked marijuana. People in those predicaments should not

and went back the next night. The ladies of the church came up to me and asked me why I left. I said because of the story in the paper. They all hugged me and told me they loved me and that they were behind me 100 percent."

After Morris' pot was confiscated, a grower in Lexington gave him a pound of Hawaiian. "I like it because all I need is three or four tokes," he says. "Usually I don't smoke more than two joints of it a day. One, 30 minutes before I eat at night, the other, whenever. Sometimes I smoke when I get up in the morning. That's a bad time for me for nausea."

"I get two kinds of morphine, but I can't smoke a joint. That's the injustice in all of this."

be made to feel like criminals." Pillersdorf adds that he has heard from other people undergoing the ravages of chemotherapy: "How can I get marijuana legally?" they all asked. And I said, 'Frankly, the law in Kentucky says you can't.' That made me mad. Here are these people who are literally fighting the fight of their lives and I have to advise them that they can't get marijuana legally, which to them means starve to death."

Explains Morris: "I get two kinds of morphine, 100 [doses] at a time. And you know how addictive morphine is. They give me that, but I can't smoke a joint. That's the injustice I see in all of this. It's strictly small-minded and very political."

Morris claims US District Court Judge John Gardner privately told him, "We're not here to give you carte blanche to smoke dope, but if the cancer comes back and you feel the need to smoke, don't fear prosecution." The lenient fine ordered by the judge, Pillersdorf believes, was a response to "extremely high cancer rates in this part of the country. Everybody on the jury indicated that a close member of their family had been touched by cancer." Suspected causes include coal mining, crumbling asbestos in public buildings and toxic waste sites.

Before his cancer, Morris was a 195-pound truck driver. He now weighs 120 pounds. A devout Christian, Morris says it's been confusing for him to be "on the one hand in church, and on the other, in the newspapers advocating marijuana."

He relates a story about attending a Baptist church revival near his home the same day an article about him appeared in the *Louisville Courier-Journal*. "I felt like everybody was looking at me," he says. "I felt paranoid, so I got up and left. But I got my nerve up

He likens it to waking up with a hangover and smoking to ease the queasiness.

But even with the help of Hawaiian, Morris says, "Food doesn't taste the way I remember it. The radiation scorched my tastebuds. I joke about ordering a pizza—you know, get a small one and I'll eat the box to make it cheaper. Not even Coke tastes the same. Nothing tastes the same."

Morris's defenses fall, however, when he looks at himself in the mirror.

"I don't think I'm the same person I used to be, and that hurts," he says. "I used to be able to lift a hundred-pound sack of flour and throw it over my shoulder. Now I'd be lucky to pick up a 25-pound anything. I'd like to at least get up to 165 pounds, but with my muscles wasting it's going to take me a long time to get back to where I was. It's going to take a lot of work. You know, back when I was hauling coal, smoking a joint would make me real lovey-dovey. Now, it would take some fine, fine head before I could get a hard-on."

In the meantime, Morris is completing his third year of college. He is majoring in biology and plans to apply to medical schools. "Everything has worked out to my advantage," he says. "I have to think there's a reason for that, that there's a point being made here: that marijuana should be reclassified. There've been many times when I've felt like giving up, but if you want to live you can't give up. Helping other people in the same situation is the only thing I hope comes of this."

"I told the judge, 'I don't care what you do to me,'" Morris continues. "I want to smoke. I smoked on TV, I smoked for the newspapers—because I wanted to let them know that I was not going to quit and nothing they could do was going to stop me short of throwing me in jail. I'm not bragging, but that would be a very big mistake." ●

TOOTS SPEAKS



The devastation in Jamaica caused by Hurricane Gilbert is hardly a thing of the past, but, according to Toots Hibbert, of Toots and the Maytals fame, the island is slowly getting back on its feet. Despite the fact that Toots' own roof was blown off, and many friends and members of his family were affected by the storm, he's maintained a positive outlook. "Jah was still merciful," he says. "Things are being repaired and everybody is getting happy again."

Did he support either of the Prime Minister candidates—Edward Seaga and Michael Manley—in February's Jamaican elections? "I don't give my heart to nothing but love... and to Jah," Toots replies.

Not the most political guy, the 42-year-old singer prefers to talk about music, especially the 1988 album, *Toots in Memphis*. It features him singing such soulful classics as "Knock on Wood," "Hard to Handle" and Al Green's "Love and Happiness." About this effort, Toots says, "It's my main thing to let my fans know that I can do anything—I can do blues, I can do classics—I can do anything."

—Judy McGuire

TRANS-HIGH QUOTATIONS MARKET

Lompoc, CA

Brown Mexican "burn your throat, half seed; available when you can find it," \$45 1/4-oz, \$160 oz
Green bud "local grown, a little damp; kinda harsh, but oh, what a buzz," \$60 1/4-oz, \$210 oz
Christmas bud "from Santa Barbara, the best in years; don't even try for an oz," \$80 1/4-oz

Bloomington, IN

Hoosier hoot 'n' holler hybrid "super gluey buds, sticks to your paper and your fingers, real popular at I U; fucks your world and your grades," \$60 1/4-oz.
Bumblebee boar's breath "black leaves with sweet yellow buds, very scarce; top notch, orgasmic high," \$40 1/4-oz.
Sinse "lots around, good high, mostly homegrown; watch for seeds and stems," \$35-55 1/4-oz, \$120-200 oz.
Albino skunk bud "glow-in-the-dark crystalline buds; 25% THC content, body-numbing dummy weed," \$45-55 1/4-oz.
Mexican/Colombian bunkweed "buds look good, but they don't get you high, smells like ammonia," \$25 1/2-oz.
Baby 'shrooms "tiny heads and stems, half a gram fries your body," \$40 1/4-oz.

Indianapolis, IN

Skunk "going fast," \$3000-4000 lb
Compact Jamaican "seedy," \$1500-1700 lb.
Sativa "the commercial route," \$10 1/4-oz.
Indica "compact profit from," \$10 1/4-oz.
Brown shitweed "who needs it?" \$120 oz.
Shrooms "for those who like that ol' body buzz" \$8-10 gm
LSD: orange barrels, checkerboards "too much strychnine," \$4-6 a hit

Wilkes Barre, PA

Hawaiian puna buds "sticky, fresh, stoney but controllable," \$100 1/4-oz, \$375 oz
Green Mexican "bad taste; stemmy; way rip-off" \$50 1/4-oz, \$185 oz
Homegrown Mendocino weed "small harvest, but this shit kicks your teeth in," \$75 1/4-oz, \$260 oz
Blonde hash "soft, but reasonable," \$8-10 gm, \$130 oz.
Black hash "someone got the shoe polish out," \$10-15 gm; \$200 oz.
Black Thai weed "compressed in blocks; the original monkey weed," \$60 1/4-oz, \$220 oz.
LSD: musical notes "do two-and melt!" \$5 a hit, \$250 a sheet

Wichita, KS

Sativa "multicolored, compressed, seedy, crud bud; makes you very sleepy," \$30

Send quotations to: THMQ, 211 E. 43rd St., New York, NY 10017. THMQ is intended solely for informational purposes. All entries should be typed or neatly written: If you are unable to compose a legible entry after testing your samples, please wait until you have control of your penmanship before sending us your information. Marijuana is listed by 1/4 ounce, ounce and pound prices only. Don't bother sending prices for hard drugs. Prices in this issue are current as of January 24th, 1989.

Dear Readers: Trans-High Market Quotations is NOT a mail-order service. Please DO NOT attempt to order items which appear in THMQ from the HIGH TIMES office. 'Cuz we DON'T sell 'em!
—Edie Barrett

1/4-oz, \$300 1/4-lb

Indica "grown outdoors, somebody forgot to pick the males; very seedy and very bunk" \$10 gm, \$60 1/4-oz.
Afghani x Beatrix choice "smells and looks good, but way bunkola," \$10 gm, \$50 1/4-oz

New Orleans, LA

Black hash "fantastic rush; doesn't drag you down," \$20-30 gm
Red hash "super buzz; smells bad; lasting high," \$30-45 gm.
Homegrown "hot and nasty; harsh; no seeds; gigantic buds," \$30-35 1/4-oz.
Afghani skunk "fucking WOW; serious buzz; no shake; unlimited quantity; beautiful to look at and a wonderful addition to any stash," \$375 oz.
Blond hash "same old shit that's been around for years, more potent than I've had in other states," \$3-6 gm.

LSD: blotter, musical notes, brown "hot shit. not a teeth grinder; traces *beaucoup*," \$1.50-6 a hit

Commercial super buds "brown; seedy," \$25 1/4-oz
Colombian gold "large quantity as always; the real high's high," \$30-50 1/4-oz.
Shrooms "best buy; fresh," \$3-6 gm.
Orange sunshine "serious as the '70s," \$1-2 a hit
Sinse "hot stuff; large quantity; smells like heaven, blasts your sex glands off," \$40-50 1/4-oz.
Thai stick "Jesus, it's there and it's real good," \$2 a stick.
Vampire weed "drains you of your life; sets your soul ablaze; only sold at night; one hit and you're high, hooked, and a creature of the night, in red papers," \$5-10 a joint
Jamaican "ass-kicking; big

buds," \$40 1/4-oz.
Hash oil "supreme smoking pleasure; enhances homegrown to the max," \$6-7 for a three gm bottle
LSD: pig in overalls, black dove, John Lennon, pickles, flies, cats, skulls, bananas "all same quality good rush and traces: four to eight hour high," \$50 for 100
Voodoo weed "plenty around; nasty taste, harsh, one-hit buzz," \$5-10 1/4-oz.

Grandma weed "perfume smell; little shake; gummy; some seeds, smokes great," \$10-15 1/4-oz.
Bourbon Street hash "lazy, dazy; plentiful," \$9-10 gm.
Lestat's personal blend "one hit is enough, though you beg for more; one of the old French Quarter's best kept secrets—I'm told that plants are grown in a cemetery on the Bayou; can only find one joint at a time," \$20-30 a joint

Lyndonville, VT

Local grown sticky bud "dark green with red hairs; few seeds; big buds; lasts long; a great high, definitely worth the price," \$45 1/4-oz, \$140 oz.
Local grown brown weed "brown and dry, but it get's you high! for those with tight budgets," \$40 1/4-oz, \$120 oz.
Skunk bud "green, stinky, and sticky; few seeds; nice, delayed

reaction high," \$40 1/4-oz; \$120 oz.
Shrooms "zip, zang, zoom! see ya!, a great trip; nice tracers and colors," \$120 oz.

Stevenson, WA

Skunk bud "awesome hairy-juana," \$60 1/4-oz, \$210 oz.
Killer green bud "mass crystals, wheelchair weed," \$60 1/4-oz, \$200 oz.
LSD: gooney bird, Goofy jumping rope "excellent fry," \$5-7 a hit

Huntington, WV

Commercial homegrown sinse "fair," \$30-50 1/4-oz, \$350-450 1/4-lb.
Barker Ridge bruiser "mountain grown; good to the last toke," \$50-65 1/4-oz.
Mexican gold \$50-60 1/4-oz.
Dirtweed "brown, seedy," \$30-40 1/4-oz.
Kentucky bluegrass "love them blues!" \$35-50 1/4-oz, \$400-425 1/4-lb.
LSD: gooney birds "take a little trip!" \$1-5 a hit.
Cocaine "good deals if you know the dealer; busts make it hard to find," \$70-90 gm.

Victoria, Australia

Hash "very crumbly, poor quality," \$30-50 gm
Sinsemilla \$30-50
Homegrown Aussie ganja \$450-700 oz.
Shrooms "wild and free on local islands," \$50-60 a dozen.

TRANS-HIGH MARKET LETTERS



ILLINOIS

Here's the story from Berwyn, IL (a suburb of Chicago) The grass scene here is really dry. If you look hard enough, you'll find some good shit. Just got some kick-ass Thai for \$50 a quarter-ounce. There's a lot of camouflage blotter going around, too at really good prices. I've also heard rumors of hash and Ecstasy, but I have yet to find any. But what we really need is peyote. If somebody brings that shit up here, they'll make a fortune!

The legalization rally in Chicago last year was a kick! Good people, good drugs, and a good cause. We need to have more rallies, though. If they want a War on Drugs, let's give them a fucking war! We must all hang together or we will all hang separately!

—America J. Concrete
Berwyn, IL

NEW JERSEY

I live in a small, unfriendly corporate community in northern New Jersey. It's a town noticeable for its conservatism and intolerance of open minds. I can easily imagine it as a resort town for such happening guys as Joe McCarthy and G. Gordon Liddy. In fact, George Bush has been known to visit the local golf club on occasion. In short, it is no place to grow herb.

However, the spirit of America is freedom. No one, not even a power-crazed police force in a town of 4000 largely fascist executives, can stop the freedom weed. This is a tale of dissent—not unlike the dissent our forefathers unleashed on England when they felt their rights were infringed upon.

The first step toward trouble-free growing is to present a respectable facade to those in power. This can be achieved in many ways. I got a job catering at the golf club that houses many of the opponents to my personal

freedom. While I won't sell out my beliefs, I make sure to be polite and avoid drug-related topics. Legalization is a personal topic to me, and I don't want to blow my cover with my near religious zeal towards it.

I forgot to mention that I am a high school senior and I live with my parents. A major part of my plan has to do with pacifying them. Before I grew pot, my grades were disappointing, to say the least. Now I achieve high grades and have learned a lot of useful information in my biology class.

High grades are great—they pacify your parents, improve your standing in regards to colleges, foster self-confidence, and as any anti-drug fanatic will tell you, "kids with good grades don't smoke pot." Obviously I am not the stereotypical head anymore. All this work is hard, but it is necessary to create an ideal growing climate.

Now to the technical aspect of growing undercover. Since outdoor growing is far too risky in an area where real estate helicopters fly over all undeveloped land at least once a week, I have to grow indoors. Here is where the work pays off.

My parents respect my privacy, but my room is in the attic, and they have to get things out of storage every so often. Several times, while my plants were in the seedling stage, my parents asked me why I had a corner of the room boarded off. I told them it was a botanical gardening experiment—and indeed it was! Like most parents, they didn't want to believe that Junior was growing dope, and they are basically ignorant of what a pot plant looks like anyway. My proclivity for life sciences has helped me get good grades in school, produce some great dope, and cover my ass.

I started the seed in a wet paper towel in sunlight under glass. When it sprouted, I planted it in a small clay pot, and as it grew I replanted it in progressively larger pots. It is now in a 7 1/2" x 9" wood planter. For lighting, I initially used a 60-watt grow light. As the plant grew and I read more about growing, I switched to four 100-watt bulbs in clamp-on desk lamps. I left these lights on continuously for two months. After pruning, I got an electric timer and set it for a 12 hour on, 12 hour off cycle. I gradually reduced the light 10 minutes a week to simulate fall conditions and force budding. When the first buds appeared, I returned to the 12 hour regimen. I managed to produce 18

main buds and countless secondary buds.

Thanks for reading this! Hopes it helps you out!

—Beaver Cleaver
Northern NJ

NEW YORK

Hey! What the fuck is going on here? There's no dope to be found. The smoke we can find is overpriced and sub-quality.

As for other drugs, if you want to trip, untie your shoelaces!

—Unstoned
Utica, NY

VERMONT

I am a concerned citizen witnessing an extremely absurd situation. The situation is the federal arrest of a man and his wife for growing 84 marijuana plants.

At 7AM one day last September, a very close friend and his spouse were arrested for possession and cultivation of marijuana with intent to sell. It made the local news and papers with extreme exaggeration on many counts. For example, an undisclosed amount of confiscated money turned out to be \$112, part of which was saved change.

These people have two children, have built their own home, work, and have been sponsoring another less fortunate child in the third world for several years. They didn't rob, abuse, or kill anyone. And they are each facing 20 years in a federal prison.

The result of this incident and all similar cases is uncalled for and legality and morality overstated as I see it. My friends' case will remain unresolved until at least February.

I just don't understand why it's illegal to grow an organic, medicinal herb while a fourth time drunk driving offender is arrested and simply fined. People don't die from growing and smoking marijuana (at least none that I've ever heard of). I feel marijuana is in the same league as coffee, cigarettes, and alcohol and should not be condemned. I bet there are just as many people who don't smoke marijuana that would agree with me. I don't believe marijuana leads to harder drugs. And I don't feel that marijuana should remain illegal based on the same emotion that keeps alcohol legal.

—A supportive friend and sister
Burlington, VT

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RALLIES FOR THE CAUSE

April 19—Hash Wednesday on the Quad at the University of Illinois, Champaign-Urbana campus.

April 1—at the Federal Building in Salt Lake City, continuing on to the State Capitol.

April 12—Hash Wednesday on the Quad at the University of Illinois, Champaign-Urbana campus. Raindate: April 19.

April 15—Tax Day Protest at the Washington Monument in Washington, D.C. Sponsored by NORML.

April 20—at either Western Illinois University in Macomb or Illinois State in Bloomington.

April 21—at Southern Illinois University in Carbondale.

April 22—at Buckingham Fountain in Grant Park in Chicago.

April 23—at the old statehouse in Springfield, Illinois. Rally will proceed to new statehouse.

May 6—New York Marijuana Day, 11 a.m. at Washington Square Park to 3.30 p.m. at 70 W. 132 St.

For more information about the Illinois events, call the Marijuana Action Committee in Madison, Wisconsin 608-257-KILO.

Send info regarding rallies and events in your area to HIGH TIMES, c/o Highwitness News. Make sure you tell us four months in advance so we can give people adequate time to make plans to attend.

'BURNING ISSUES' EDITOR BUSTED

R. B. Wilk, editor and publisher of *Burning Issues*, was arrested on January 9 when police discovered a designer drug lab being operated by her landlord in the house where she rents a room in Fair Lawn. New Jersey Police charged Wilk with "maintaining or operating an illegal drug laboratory."

A legal defense fund has been established to help Wilk fight her case, recover her property and continue publishing *Burning Issues*. Those wishing to lend support can send donations to the R. B. Wilk Defense Fund, c/o Ralph Fucetola III, 23 River Rd., North Arlington, New Jersey 07032.

—Lois Glover

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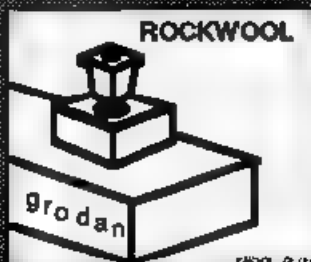


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TIMES MAGAZINE

FEATURING

SMOKED POT WITH HIGHFOOT

by Frank William Holiday



ACAPULCO GOLD

by M.J. Makranski



PUZZLE PAGE

by Ken Weiner



THE TRAGIC TALE OF SISTER AMELIA

by Leslie Sternbergh



LIV MISCREANT

by Flick Ford



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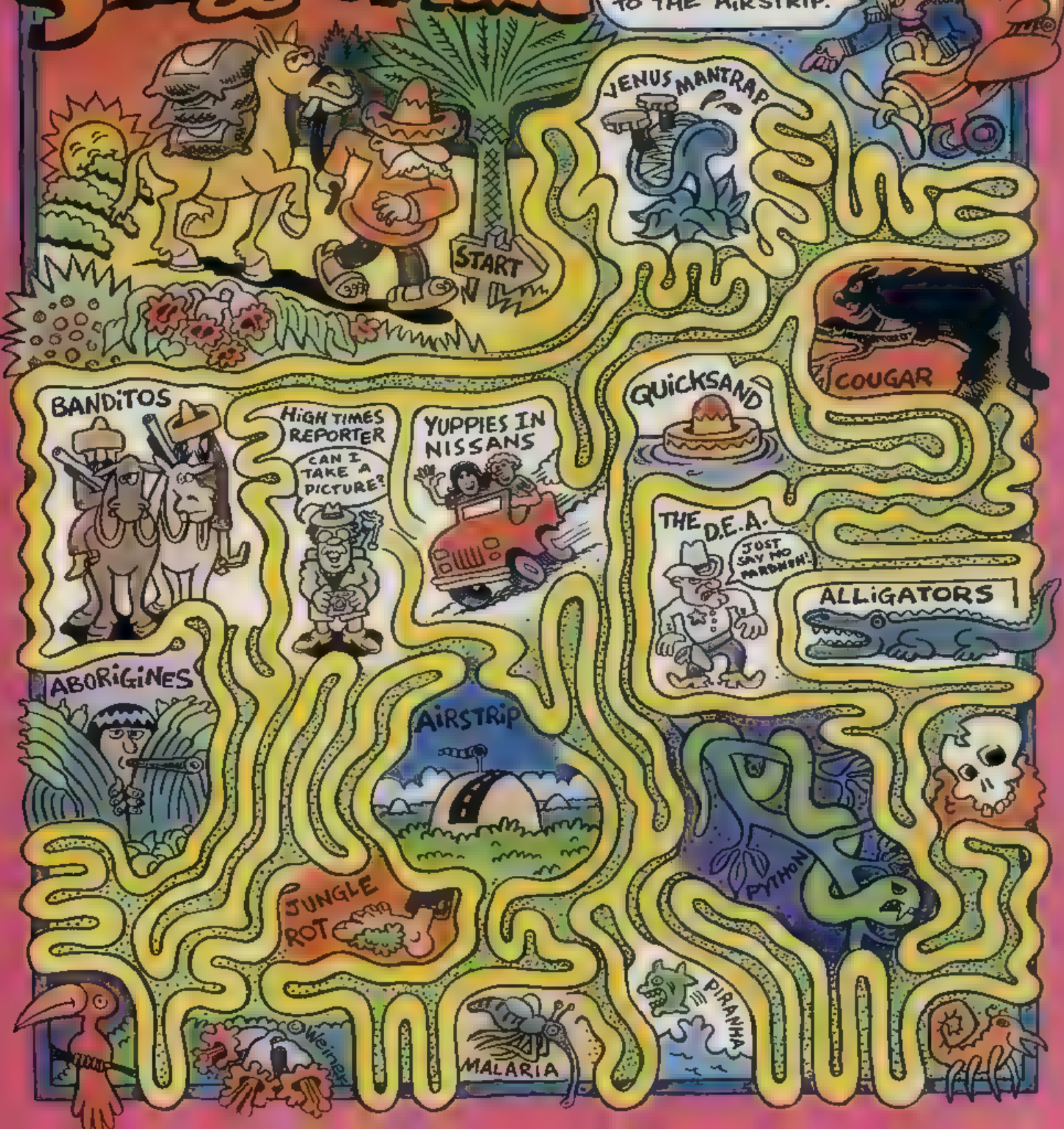
by Ace Backwards



CAPTAIN CANNABIS' PUZZLE PAGE!

Smuggle Maze

FIND THE TRAIL FROM THE PLANTATION TO THE AIRSTRIP.



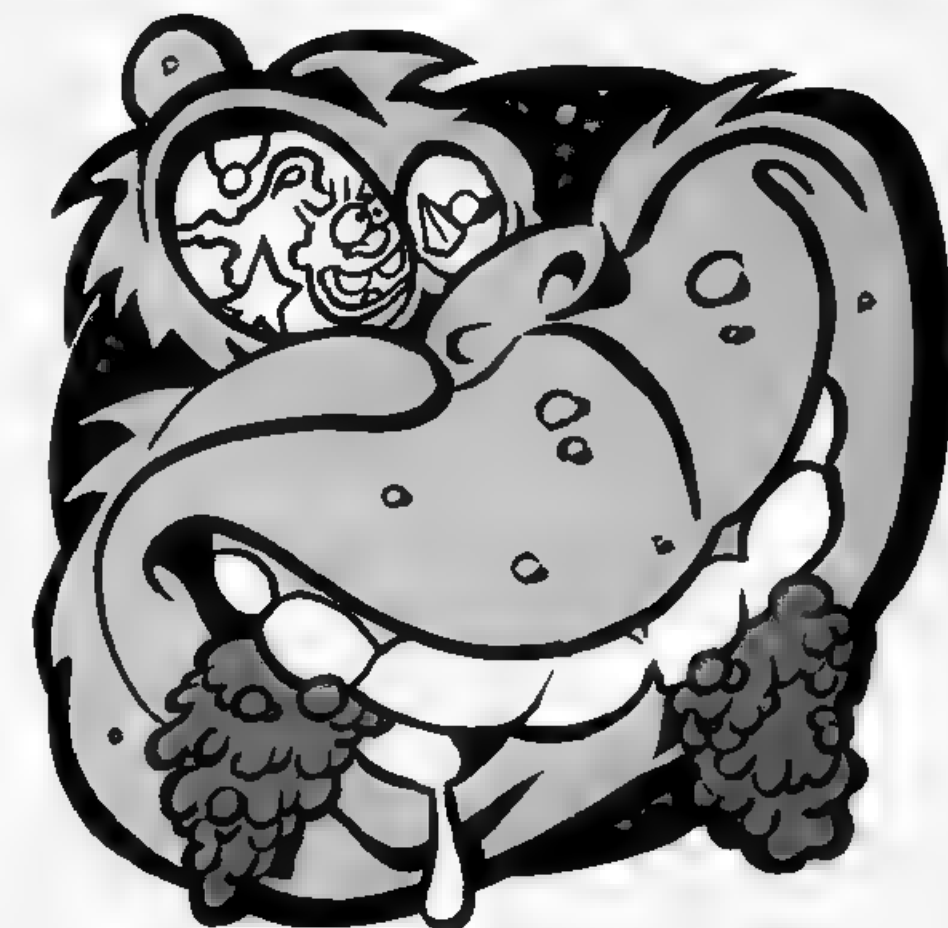
I SMOKED POT WITH BIGFOOT

by Frank William Holiday

It was the last week of May, and I had finally come to the decision of where and when to start my first attempt at "guerilla growing." Weather was the biggest determining factor. Where I live it's good, but I was after the best possible climate. The strains I wanted to grow weren't resistant to mold, and it rains more than enough in Humboldt County, land of the biggest old growth trees in the world. Incredible soil and plenty of rain. But despite all the benefits I could find for growing locally, I decided to go east from the coast, about an hour's drive inland, where the weather was a pot growers dream: 70 degrees by 10 AM, sometimes 90° by noon and then slowly tapering off to a comfortable 65° during the evening.

The area was full of virgin and second growth redwood trees. I have always stood in awe of those trees because they have managed to live through all the bullshit the human race has inflicted on them. Anyway, the only area acceptable to me was surrounded by trees and just a little ways from the small town of Willow Creek. Does that name ring a bell in your memory banks? It should, because it's located on the far eastern side of the famous Emerald Triangle, where CAMP is extremely busy come late August.

On the day of my transplantation process, I meticulously packed everything I needed for my two day campout in the wild. Included were five Skunk #1 and five Skunk-Afghani hybrid crosses from Holland. The plants had been very carefully grown indoors under metal halide and CO₂ for two months and then readied to be put outdoors with a special transplant mixture that I came up with to balance the N.P.K. level and pH. (Prior soil analysis is always a must.) So after rolling several good-sized doobies and having an extremely hard time trying to



MILTON KNIGHT

remember if I had forgotten anything, I packed my two little sons, ages 7 and 11 (did I forget to mention that I am a single parent?), our dog, and every last-minute luxury that I could cram, into my station wagon and we set out for what was to be the strangest campout of my life.

A few hours before sunset we arrived at a campground a few miles south of a large Indian reservation. While my sons terrorized the nearby campers and local wildlife, I unpacked and set up the campsite. Eventually, they wore themselves out swimming in the river. As soon as we finished dinner they fell asleep. Party Time! I lit up a joint and dug out my custom-made pot plant carrier, my plants and my super-duper utility belt. This time the belt was heavier than normal because its new addition was a brand new camouflage cannon holster. It's strange how a stainless steel .357 Magnum can give its bearer a stainless steel set of balls to

match. Watch out bears! Watch out everyone! So after leaving strict orders with my trusty dog "Odie" to "SICK BALLS!" on any campsite invaders, I started my journey.

I was pretty near a mile from camp when I planted my first plant. From that moment I had the distinct feeling I was being watched. I thought I heard a rustling in the bushes, so I scanned the immediate area with my mag-lite but didn't see anything. But I did notice something was missing. It was sound, nature's sound. You know, birds chirping, owls hooting, crickets, stuff like that.

After checking around, I went back to my transplanting but the feeling that something was watching lingered on. I finally finished and headed back for camp. During the walk back, I kept my right hand resting on the safety strap that held my gun in its holster. Extreme paranoia. I was relieved to reach camp, settle down and catch some



shut-eye. I felt much safer in my little tent. Morning came far too soon and my ears awoke to the complaints and yells of local campers, letting me know that my two sons were also up. After making breakfast and packing up, we started our trip back home.

About two months later, I decided I had better check on my plants' progress. I packed my entourage and headed for my special campspot. After a hard day of playing, my sons crashed early and I

got ready for my plant inspection. I was about halfway through rolling a joint when I got that eerie feeling again. Too deep into the project to let a little heebie-jeebies stop me, I got my things together, making sure my gun was Rambo-ready, and headed for my plants.

I was about half-way to my destination when I pulled out my lighter to fire up a doobie. At the same instant that the lighter sparked, a twig snapped and I heard a rustling in the bushes. My heart pounded. I

turned on my flashlight and scanned the area but nothing was there. Re-lighting my joint and picking up my water containers, I went about my tasks: watering, manicuring and spraying some insecticidal soap on the plants. As I finished up my last plant, I fired up another joint to celebrate my mission's completion, when all of a sudden the hair on the back of my neck stood up. All sounds of wildlife were gone. I went back to my joint and took a huge lung-searing hit. As the pungent smoke took



MILTON KNIGHT

effect, my legs got wobbly and I sat down. A nice head rush was coming on, so I just leaned back and enjoyed the hell out of it. When I finally came down to planet Earth and realized where I was and what I was doing, I decided I had better get back to camp before I crashed right there and then.

However, as my finger hit the flashlight button the intense light startled something out there. I could hear my blood pulsing through my ears. I shined the light to my left and

another sound came from my right. I quickly pointed the light to my right and sitting just a few feet away from my best skunk-afi plant, was a very large, very hairy bear-type of thing. He had fur all over him but his face was more human than bear-like and he wore the remnants of a Grateful Dead tie-dye. As I shined the light in his eyes, he put up his huge hand to cover his eyes. Lowering the beam down the rest of his huge body, I came to the startling conclusion that this was definitely no goddamn bear!! I

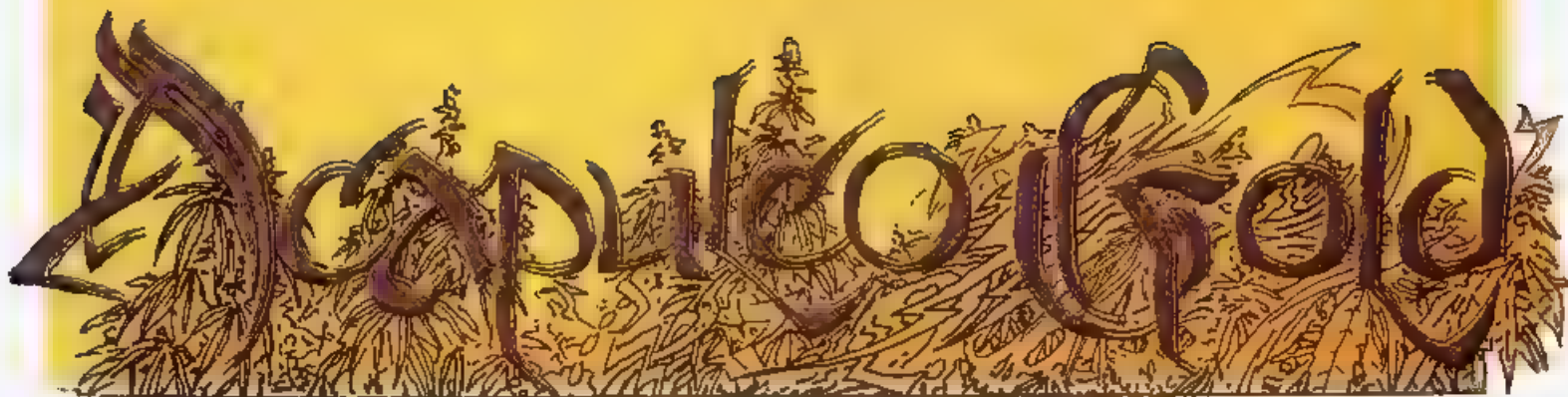
reached for my pistol, at the same time blinding him with the light. But at that instant we locked eyes. Geez, his eyes were as red as mine! And as we stared eye to eye, it was like he was trying to send me a message, telepathic-like. Sort of like when you and your dog communicate—words aren't spoken but you know what he's thinking. Anyway, the unspoken message that this hairy-ass thing was trying to tell me was "Hey man, I see your gun, don't panic, I live here, I'm

continued on page 71

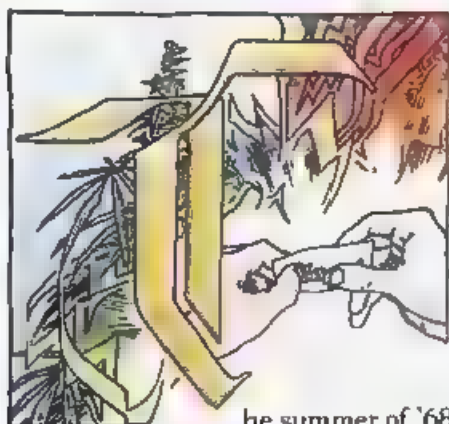
Lil' Miscreant. By Plicky Pond '89



WORDS + MUSIC BY THE SOUL ASSASSINS 1989/90



by M.J. Makransky



JAMES ROMBERGER

he summer of '68

There had been a shortage going on for months, and all we had to smoke was this crappy Mexican weed that they cut with sugar for weight, and which was so sticky and gooey that you could scarcely light it, much less smoke it.

Then one day Ace came in and told me, "Hey man, I got a line on some genuine Acapulco Gold! This friend of mine scored ten keys last night, and he just told me on the phone he'll sell me a pound of it if I come pick it up right now!"

Well that was groovy news, and brightened my day considerably. I marvelled at my luck in being the only one in my circle who owned a car, since Ace would not have been so eager to share such a find had he not needed the means to transport it.

The friend, it turned out, lived in a large Victorian era apartment building in Germantown. In accordance with the etiquette of scoring, I waited outside in my VW sedan while Ace went in and made the buy. About half an hour later, he came out clutching a package, his

big red face beaming with joy. He even jumped and clicked his heels together as he approached the car, making his long, sandy hair fly in all directions.

"Just look!" he cried, as he climbed in and shoved the package towards me. I opened it and beheld the radiant golden brown leaves shining up at me from the Spanish-language newspaper in which they were nestled. A whole pound! It was truly a transfixing sight! I wondered how much Ace would be willing to sell to me. He reached into his shirt pocket for cigarette papers, and I handed him the package so he could twist up some numbers for the journey home.

He lit one up and it smelled great. He passed it to me and it tasted great. Maybe it was my imagination, after the long famine, but I really felt like I was flying from that one toke.

"Better drive, man," Ace told me. "I feel safer on the move."

I pulled away from the curb, and we drove leisurely through the balmy Germantown summer, passing the joint back and forth. It was a beautiful day. Little black kids played in an open fire hydrant, squealing with delight over the gush of water. Lovers made out on the lawn of a funeral parlor. A Little League baseball team was cheering in the park. Everything felt pretty groovy.

We stopped for a traffic light and I was toking deeply on the remains of the joint when I became aware of honking going on behind me. I looked in the rear-view and saw a dark blue Plymouth with only one

occupant, an older woman apparently, who was honking her horn like crazy and signalling me with her hand. I thought maybe she was trying to tell me that something was wrong with the car, so I put out the joint, and when the light turned green I pulled over to the curb across the intersection. She followed and stopped behind me, and then got out of her car.

She came up to the window on my side and looked me in the eye. I didn't like her look. She was sixty or so, nattily attired, with an American flag pin in the lapel of her suit. She had steely blue-grey hair and mean, steely blue eyes.

"You went through the stop sign back on Upsal Street without even pausing," she shrieked at me. "That's a dangerous intersection; there are always children playing around there. Thank God you hippies didn't kill anyone!"

"Sorry, lady," I said. "I didn't see it." Which was true. I guess I was passing the joint at the time and didn't notice it.

"You tell that to the police!" she demanded. "I'm making a citizen's arrest. You're both under arrest! You can follow me to the police station."

"Hey lady, I said I was sorry. Okay? I won't do it again."

"Why'm I under arrest?" Ace put in. "He was the one who was driving."

"You're under arrest, young man. And your friend too. I have your license number, and you'll follow me right now, if you know what's good for you."



JAMES ROMBERGER

leisurely towards home, when I noticed in the rear-view, barreling down on my tail like a Messerschmidt, the dark blue Plymouth with its honking, raving occupant.

"Oh Jesus!" I exclaimed. I jammed on the accelerator but was too slow; she was up to me on my left side, smiling like a death's head, forcing me to the curb before I could get any momentum. As I screeched on the brakes, she sprang from her car yelling, "Help! Police! Help!" and brandished her umbrella for the attack. I shifted into reverse and backed up, with her beating the hood of my car with her umbrella, then executed a tight U-turn which almost grazed her, but she didn't flinch.

"Criminals! Criminals! Police! Police!"

I didn't look back, but Ace said she'd jumped back in her car and was following.

"I don't see how we can get away," I said, rounding a corner. "She's got the faster car. Ace, you're going to have to ditch the weed."

"No way, man. You kidding? This is Gold! She's just a nut. Hey look! Look there!" He pointed towards an open garage attached to a duplex. "Pull in there fast!"

I turned into the driveway and pulled into the garage. Ace jumped out as I stopped and pulled the garage door down.

"I think we made it!" he said with a grin. "She didn't see us."

"I wonder whose garage this is?" I asked. My tummy was still tumbling and my adrenalin pounding.

"Some black, probably. It's a black neighborhood."

That made me feel better. We sat down in a corner of the garage next to a door that apparently led inside, and we waited. We couldn't hear anything happening inside the house. Maybe no one was home. Ace pulled his package out and began rolling more joints. He lit one and handed it to me.

"Well, my friend," he observed, "a fruitful and adventurous afternoon."

The grass was good grass. After a few tokes I began to relax and calm down. We joked about the lady.

"A typical fascist," Ace said. "Low link on the Great Chain of Being. Complete lack of dasein."

"Dasein?"

"Yes, dasein. Being there. Don't you read Heidegger? Like that lady, she just ain't there, you know what I mean? No dasein."

We sat passing the joint back and forth for about fifteen minutes, while Ace enlarged on the subject of ontology. When the joint was gone he lit another one. As he passed it to me he must have slipped the match into a pile of gas-soaked rags, because all of a sudden, WOOMP!—a sheet of flame leaped up the wall next to us. We jumped up and stomped on the rags to put the fire out. Finally we got it under control.

"We'd better get out of here," Ace suggested. He made for the garage door and opened it, and we both stuck our heads out and gulped fresh air, as smoke poured out around us. Then, suddenly, Ace pulled the garage door shut again.

"What's the matter?" I asked.

"Eva Braun's coming down the street in her Plymouth. We'd better wait 'til she goes by."

The place was still smoky, so we lay down on the floor where the air was better. There was still no sound from inside the house. Ace picked up his joint where he'd dropped it and lit it up again. He passed it to me.

"What we need more of, especially at times like this," he observed, "is dasein." He went on for a while, and I became aware of the sound of sirens off in the distance.

ome on, lady, get serious. Who do you think you're messing with?" I thought it was time to get tough. I mean, for all she knew we were killers or something—long hair, beards, pierced ears. Ace had tattoos up and down his arms. We looked like hell. I narrowed my eye at her and snarled, "I don't want no trouble; you just flake off, okay?"

"Your kind don't impress me." She pulled an umbrella she'd been carrying out from its sheath and flourished it like a sword. "Are you resisting arrest then? That's a felony!"

"Come on, man!" Ace whispered to me. "Quit jawing and get the hell out of here!"

I turned the ignition and gunned the accelerator, giving the lady a sneer as I shot away. Since a VW sedan is no match for a Plymouth, I thought it prudent to put some distance between us, and I turned corners at random until I thought we'd safely eluded her.

"You know, Ace," I observed. "I wonder why this kind of stuff only happens when you're stoned?"

He replied with a stoned grin, reached into his pocket, and pulled out another joint. He lit it up and we passed it back and forth, cruising



JAMES ROMBERGER

hear sirens?" I asked him.

"Fire sirens. Don't worry," he replied. "You can tell fire sirens from police sirens. Fire sirens are the voice of the fireman, which has more dasein than the voice of the policeman."

"Ace, they sound to me like they're coming this way!"

Suddenly the door next to us flew open and a huge black woman with horn-rimmed glasses and a broom in one hand and a pail of water in the other burst into the garage, she caught sight of us, froze in an attitude of total indignation, and shrieked in a booming, gravelly voice, "Bums! Bums! Hippy Bums!"

She threw the pail of water in our faces and attacked us with the broom.

"It ain't no fire! It's just bums! Hippy bums!"

I made for the car door with my hands over my head to fend off blows from the broom, turned on the ignition, and backed out as Ace went for the garage door. As soon as he opened it, a wail of sirens poured in. Ace jumped in as I backed down the drive. The lady was yelling her head off, but we couldn't hear her over the screams of sirens. I hit the street, turned, and took off, passing a police car and a fire engine coming the

other way a block up the street.

"Why does this kind of stuff only happen when you're stoned?" I asked forlornly, wiping my wet hair and face with my shirt-tail.

"Because it augments the dasein. Here, have a hit," he offered.

"I think I've had enough, thanks," I replied. "Are they after us?"

"Nope. We're safe. Just relax, you're all tense."

I was trying to go as fast as I could without actually speeding, turning corners every time I came to one. When we stopped at a red light I hunched over the steering wheel and closed my eyes for a second.

"Don't look now," Ace said, "but guess who's staring at us from over there across the intersection."

I looked up and saw a dark blue Plymouth stopped at the light coming the other way, and although I couldn't hear anything, I saw a face behind the wheel contorted with anger. When the light turned green I shot through the intersection and sped straight away.

"She's made a U-turn," Ace reported. "She's coming after us."

"Ace, ditch the stuff, man!"

"You're kidding. You've got to be kidding."

I raced down Johnson St. and reached the turn for Wissahickon Drive. The traffic light was red, but I didn't see any traffic coming on the Drive, so I plowed right through and made the left turn. Then I saw a cop.

He was on the opposite pavement, waving at me and whistling his whistle. I smiled and shrugged at him, and kept going.

"She ran the light, too. She's about 400 yards back," Ace reported. "Come on man, come on! Don't let her run us off the road again!"

She gained on us fast, and bore down on my tail, so I opened the car door on my side and began swerving back and forth across the two lanes to keep her from passing us. She was honking and zooming right up on my tail as if to ram me, and at one point she did hit us because I felt the bump. She kept trying to get around me on the left, feinting to the right and then zooming back, but I didn't let her get around me.

"I see a flashing light back there," Ace said

"Ace, get rid of the stuff, man! Please! Get rid of it!"

"Don't panic, there's time. They might nab *her*. Just hang a right into the park."

I saw the park entrance ahead on the right—a bridge over the creek—and when it was still 200 yards away I let her get around me. She started to bear down on my left again to force me off the road—I could see her gleeful smile of impending triumph—but just before the bridge I slammed on my brakes and made a screeching turn over the bridge while she shot on ahead.

"Now what? Burn the bridge?"

"No, man, just head up into the woods. She won't be able to follow on those bridle trails."

"Let's ditch the weed, man!"

"No way, man! This is Gold, man! Just head into the woods! She's backed up and turning over the bridge, and some cops are coming up the Drive behind her! Come on! Come on!"

I headed for the woods on a bridle trail. The road got narrower and muddier, and I felt a ray of hope that the Plymouth and cops wouldn't be able to follow. In fact we did seem to be eluding our pursuers, though we could hear sirens shrieking through the treetops, when the car hit a big slough, bogged down and stalled.

"Come on, man! Come on!"

I turned the ignition over and over,

continued on page 66

• BASED ON A TRUE STORY, R-I-I-I-G-H-T?
 IT'S **THE TRAGIC TALE**
 of **Sister Amelia**

SISTER AMELIA WAS A DEVOUT AND SAINTLY MEMBER OF AN ORDER THAT OFTEN DID ITS WORK



IN SOME **BAD AREAS** EVERY DAY SHE'D WALK DOWN SOME PRETTY **TOUGH** STREETS TO THE **PARK**, WORSE YET.

ONE DAY SHE THOUGHT SHE HEARD SOMEONE



CALLING HER BY NAME!!

SHE TOOK THE MATTER TO HER **MOTHER SUPERIOR**---

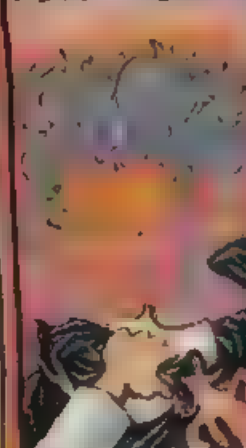


SHE PRAYED FOR GUIDANCE,



STILL SHE HEARD THEM CALL HER NAME,

FINALLY SHE WENT **INSANE**



THE MEN IN THE **WHITE COATS** CAME-

BUT SHE'D ONLY BEEN IN THE **BIN TWO WEEKS** --



WHEN SOME **HIP ORDERLIES** RAISED HER CONSCIOUSNESS

SO THIS STORY ENDS



TWISTED IMAGE

Comix
by
Ace Backwards

Ace Backwards' **Twisted Image** is a classic example of wit, barbed satire, and existential angst. It is also very funny. We're proud to present a heaping helping of his rib-tickling comic strips.



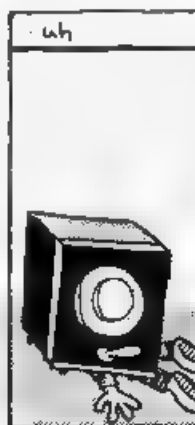
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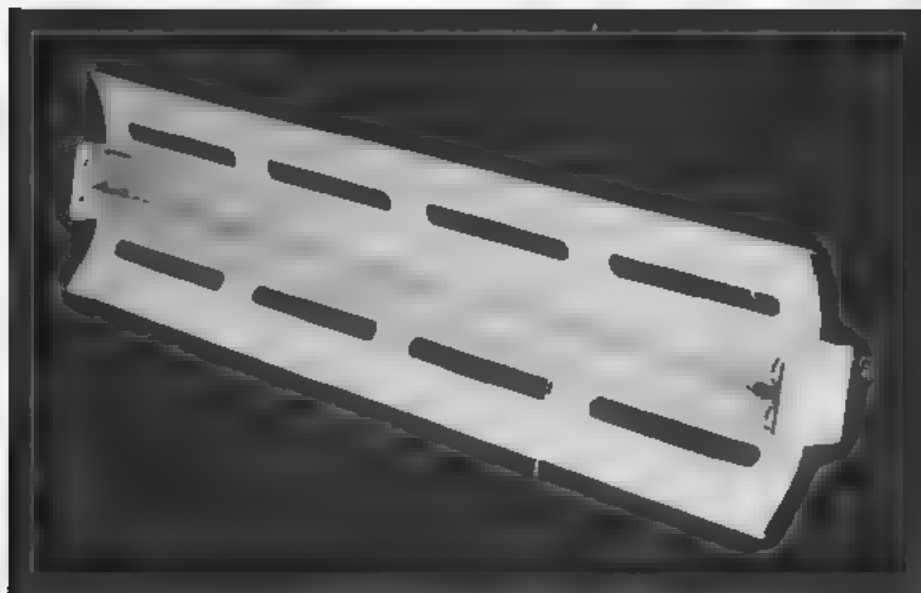
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ELECTRIC LIGHTS FOR PLANT GROWTH

Story and Photographs by Mel Frank

The light system is the heart of any electric light garden. The amount of light and space your plants have determines how fast, large, and robust the plants will grow. In a well-maintained garden it's relatively simple to supply indoor plants with all the water, air, and nutrients they need, so that light becomes the only limiting factor which might restrict growth. The amount of light also determines the garden's dimensions, the overall size of the plants, and even what varieties of marijuana a grower chooses to cultivate. Most other aspects of gardening can be considered when you come to them, but the kind of lights and the amount of light that illuminates a garden must be decided before any seed is sown.



Fluorescent fixture with reflector and heat vents.

Primary Light Sources: Types of Lamps

Fluorecents (Modest Indoor Gardens)

Fluorecents are common, inexpensive, cheap to run, and effective in illuminating modest indoor marijuana gardens. Fluorescent fixtures contain a ballast and two end sockets in which the tube (bulb or lamp) is held. If possible, purchase fixtures with built-in reflectors. There are innumerable types of fluorescent tubes and many lengths and wattages available to the homegrower. Only those sizes and types that are the most effective as growing

lamps are described here.

Fluorecents have gotten a bad rap from many growers who were disappointed with the results. Good results require a most daily care while the plants are flowering. Fluorecents generate weaker light than other recommended lamps. While flowering plants must be carefully tended to keep the tops of all plants at the same height and as close to the fluorecents as possible, otherwise the final crop will amount to no more than some skimpy buds and a lot of leaf. Many fine crops

are raised under fluorecents by conscientious growers who spend the necessary time and who are sensitive to the plants' needs. Fluorecents are an inexpensive alternative to other lamps for the moderate smoker who can't invest much money or devote much space to a larger light system. The type of light makes little difference to the potency.

Fluorescent fixtures may be found or scavenged; tubes are cheap, and the garden contributes little to the electric bills. On the other hand, if cost and space are no object, High Intensity Discharge lamps (HID) support larger and more robust plants, and require less careful attention and less frequent care.

Fluorecents are cheaper and better than HIDs for rooting clones, raising males for pollen, and starting seedlings up to about eight weeks of growth before they are transferred to an HID system. On all of these, the high energy output and expense of HIDs is wasted. Commercial growers use fluorecents to start plants when they rotate crops to successively larger light systems, particularly when using High Pressure Sodium (HPS) lamps.

Ironically, some of the largest commercial indoor gardens use the lowly fluorescent exclusively. These "growing factories" use growing shelves and clones for rotating fast turnover gardens. For the homegrower growing for personal use, a shelf garden under fluorecents might be your best option in terms of your initial cost, electrical consumption and subterfuge.

Standard Fluorescent Fixtures

Standard Fluorecents (the long tubes you see in industrial and some home lighting) come in lengths from six inches to 12 feet, and all of them use about ten watts per linear foot. This means that a standard four-foot fixture with its tube uses about 40 watts per tube and an eight-footer uses about 80 watts. These two sizes—four-foot and eight-foot lengths—are the most common sizes available and the most popular with marijuana growers. You can find tubes of five, six, and seven-foot lengths, and you should use them if they will fit your space.

Any tube less than four feet long emits too little light to grow a vigorous crop of marijuana. Tubes longer than eight feet are hard to find and somewhat unwieldy to raise and lower, but they work very well if you have the space.

Fluorecents are also manufactured in efficient use tubes. GE sells their



Keep fluorescents close to the plants' tops.

Watt-Miser line and Sylvania has their SuperSaver line. Europeans look for TL tubes and most manufacturers sell a line of watt-saving standard fluorescents which emit more light per watts consumed than standard tubes. Typically, "watt-saving" tubes consume about 20 percent less electricity and emit ten percent less light than standard tubes. Look for these watt-saving lines when setting up a large shelf garden where you're concerned about electrical consumption. Many fluorescents are manufactured as "power twists" or "power grooves." These tubes have indentations or are twisted, which gives the bulb more surface area and they emit about ten to 15 percent more light per watt consumed. Most manufacturers offer tubes in "efficient use," "power groove," and "higher output versions."

Higher-Output Fluorescents

Fluorescents also come in higher wattage sizes, the most common being Very High Output (VHO) at 215 watts per eight-foot tube, and High Output (HO) at 110 watts per eight-foot tube. VHOs emit about 2.25 times as much light, and consume almost three times as much power, as standard fluorescents of the same length. They also require a special VHO fixture (a VHO ballast and end sockets). HO tubes also require an HO ballast and different end sockets than standard bulbs use. HOs use about 45 to 50 percent more electricity and emit about 45 percent more light than standard fluorescents of the same length. VHO and HO tubes in four-foot lengths are rated at about half the wattage of the eight-foot tubes. HO tubes in five, six and seven-foot lengths with correspondingly higher wattages are hard to find, but they can be ordered. VHO tubes also come in five-foot and six-foot lengths. For better results, always use the longest tube you can fit in your prospective garden. Generally, VHO and HO "watt-saving"

tubes consume less watts with a correspondingly lower output in overall light. In other words, they aren't necessarily more efficient, they just put out proportionally less light, while they consume correspondingly fewer watts. A "watt-saving" eight-foot VHO consumes about 185 watts, and a "watt-saving" eight-foot HO uses about 95 watts.

Although all higher-output fluorescents work well for growing marijuana, VHOs are not better than HID lamps; they cost about the same, and the light system is more unwieldy and less efficient in terms of light delivered per watt consumed. Setup and care is easier with HID lamps, when the plants get larger, growth is more robust under the higher intensity of HID lamps. However, HO tubes draw less current, are cheaper, and work very well with moderate electric costs after the initial investment in the HO fixture.

One advantage of fluorescent tubes is that they may conform to an odd space with limited headroom such as a shelf, overhead closet, attic, crawl space, half-basement nook or space beneath a loft bed, they come in many lengths and take up less vertical space for gardening than HIDs.

Metal Halides and Sodium Vapor Lamps

Metal Halides (MH) lamps and High Pressure Sodium Vapor (HPS) lamps are the most effective and efficient electric light sources available to the indoor gardener. These bulbs are a point source of light, rather than a linear source like fluorescents. Because the light radiates from a point, it's more intense and can penetrate leaves and illuminate a deeper cubic area than fluorescents. A 1,000-watt HID will grow larger plants with a deeper layer of worthwhile buds than five VHO fluorescents using 1,075 watts.

Both MH and HPS bulbs come in many sizes: the halides range from 175 to 1,500 watts, the sodium vapor bulbs

from 35 to 1,500 watts. For most situations I recommend only two sizes, 400 and 1,000 watts, and only a few basic bulb types which are listed later. A 1,500-watt bulb lasts only 25 percent as long as the smaller sizes do, including the 1,000-watt bulb, so 1,500-watt bulbs are not recommended because of excessive bulb costs. Most bulbs of less than 400 watts are not as effective for plant growth, and it's considerably more expensive for growers to set up several smaller units than to use either of the two larger, recommended sizes. The GE Watt-Miser or similarly efficient bulbs of 325-watts, and the Duro-test Optimarc of 250-watts are the only smaller bulbs recommended for typical gardens. With special circumstances—for instance, if the only place you can grow is in a small closet, consider buying a smaller, horizontally mounted MH or HPS. These *mini-horizontals* range from a 150-watt HPS or 175-watt MH to the 250-watt sizes. The horizontal fixture delivers from 20 to 45 percent more light to the plants than conventional, vertically hung bulbs. The most productive modest setup you can buy is a 400 watt HPS with a horizontal reflector. It doesn't add much to your electric bill, and the bulb lasts for about three years. For about the same costs, one 400-watt ballast runs any 400-watt MH, and a 1,000-watt ballast runs any 1,000 watt MH. HPS bulbs require their own particular ballast which should be purchased along with the HPS bulb.

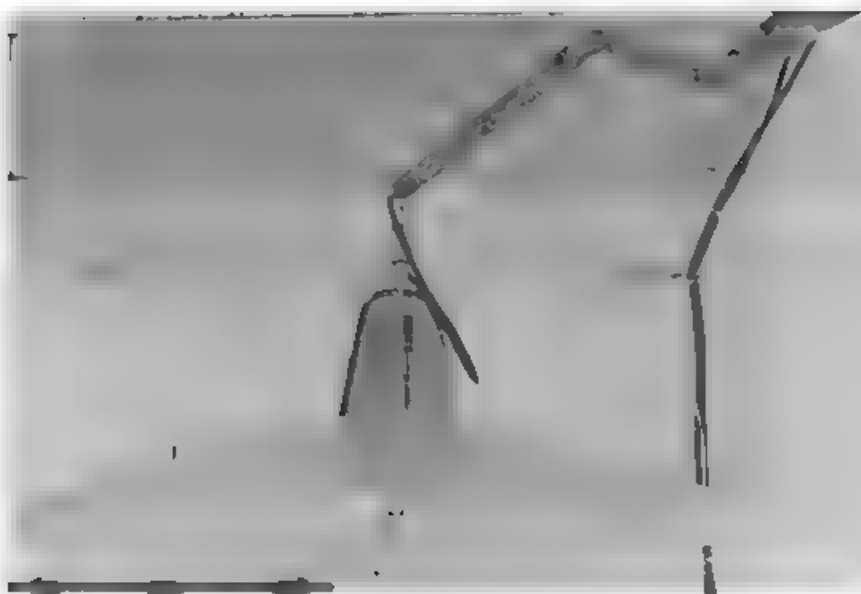
Light Balancers (Movers)

Light balancers (also called movers) are mechanical arms from which hang MH or HPS bulbs, their small motors move the lights slowly across a garden. Light balancers come in two basic configurations, linear or circular. Linear balancers move the lights back and forth along a linear track, and are best employed in a rectangular garden. Circular balancers either rotate the lights continuously in a circle, or move 180 degrees and back to repeat a cycle. After the initial cost, light balancers save considerable electrical costs, considering the extended area that they illuminate versus their running costs, which are negligible (only 14 to 24 watts). Light balancers increase the effective size of any garden significantly without additional bulbs or any appreciable increase in electrical costs.

Supplemental Lights:

Types of Lamps: Mercury Vapor

Mercury Vapor lamps can be screwed into a standard incandescent light socket, yet they produce a lot of light. Mercury lamps are relatively inefficient in terms of usable light versus electrical consumption. Use mercury vapor bulbs only to add light to a natural light garden. Mercury vapor bulbs do produce a very high intensity light compared to



An MH lamp on a Sun-Circle light balancer.

most bulbs that work in a standard light socket. The best bulb in terms of light spectrum is the Duro-test Fluomeric Safe-T-Vapor lamp, because, as the name implies, the bulb is safe to use in home situations, and the light spectrum is excellent for growing plants whereas the light spectrum of other mercury vapor lamps is quite poor. Wattages range from 160 watts up to 1,250 watts (although bulbs with wattages higher than 250 watts from Duro-test or Duro-lite may not be available by the time you read this). Buy mercury vapor lamps with built-in reflective coatings, and mount them as you would a spotlight. The Fluomeric is an excellent bulb to supplement natural light, but any HID is more economical and a better light to use as a sole source of light. A 400-watt MH or HPS covers more area with considerably cheaper bulb replacement costs.

For supplementing natural light, mercury vapor lamps add much useful light, and when extending the photoperiod there is no shading from a bulky fixture. Installing the lamp is as simple as screwing it into a standard light socket. The disadvantages with mercury vapor lamps are that they burn hot like a spotlight, and the area they illuminate is a smaller area than that from a comparable HID. For simply extending the photoperiod in a natural light garden, any type of lamp will do. The new, low-wattage MH and HPS lamps in self-contained horizontal fixtures are cheaper than mercury vapor lamps in the long run and actually they're more effective in terms of plant growth. These self-contained mini-horizontals are highly recommended for both mini-gardens and as supplemental lights.

Circular and "U"-Shaped Fluorescents

Circular fluorescents need no special fixture to operate. They are self-

ballasted and designed to operate in an incandescent socket (typical table lamp socket). Hang them around the garden's perimeter or position them in stand-up lamps in standard light sockets. The wattages range from 20 to 44 watts and you should use the highest wattage available (circular fluorescents over 22 watts need a special fixture). Usually growers use these bulbs to increase light during flowering so the best, most common bulb to use is the Warm White which is strong in the red band, the preferred light for flowering. Circular fluorescents are excellent for supplementing light or for extending the photoperiod in natural light gardens since they require no special fixtures and they shade little of the garden from natural light. Circular fluorescents take up little room, and are inexpensive and easy to employ. A 44-watt GE Watt-Miser emits more light (lumens) than a 100-watt incandescent. Circular bulbs are about 16" in diameter for the largest (40 to 44-watt) size.

"U"-shaped fluorescents are much like circular fluorescents, but require a special fixture and ballast. Their only practical use is when the space available is restricted, although some growers use them to illuminate the lower branches in small gardens. Circular fluorescents are equally effective and are easier to set-up. "U"-shaped fluorescents come in sizes from 25 to 40 watts. A 40-watt tube is nine inches wide and about two feet long. Circular lamps work better, since they require no special fixture, and their overall cost is much less.

Low-Pressure Sodium Lamps

Low-Pressure Sodium lamps (LPS) are offered by a few distributors that advertise in marijuana publications. The LPS is the most efficient of all lamps in converting electricity to light. However, the bulb is monochromatic, that is, it produces light in a single, narrow band

at about 589 nanometers, in the orange part of the visible spectrum. Although its yellow/orange light is slightly outside of the desirable red part of the spectrum, its high output versus electrical consumption makes it a good performer as supplemental light. LPS lamps must only be used to supplement natural light, fluorescents, or MH lamps. Plants elongate and grow abnormally when cultivated solely under LPS lamps.

The most popular sizes offered to marijuana growers are the 135 and 180 watt sizes manufactured by North American Philips. These require an LPS fixture that looks somewhat like a slightly oversized four foot fluorescent fixture. In any halide or natural light garden, a supplemental LPS very effectively adds much useful light near the red end of the spectrum to promote flowering.

An LPS has the unique property of maintaining the same lumen output throughout its lifetime. The bulb gives no indication of age before it suddenly ceases working after about 18,000 hours of use. Because the bulb contains sodium, be particularly cautious when using water near either an operating or a discarded bulb. Sodium explodes when it contacts water.

Standard and Plant-Gro Incandescents and Spotlights

Incandescents are the standard screw-in bulb that we're all familiar with. They are inefficient lamps, produce an unbalanced spectrum (mostly red, orange, and yellow) are very hot, and can burn the plants. Their advantages are that in a pinch, before you can set up other lights, they are cheap, easily found, and easy to set up on the perimeter of a garden.

Spotlights are actually focused incandescents. The spectrum is a slight improvement on incandescents. They also are very hot and can burn the plants.

Plant gro versions of both incandescents and spotlights are available in garden shops. They are coated to improve the light spectrum for growing plants, but they still burn hot and are inefficient. Replace them with other supplemental lights, such as self-contained mini-HIDs, LPSs, circular fluorescents, or mercury vapor lamps in any extended operation.

Where to Use Supplemental Lights

Use supplemental lights to extend the natural daylength or to increase the light in natural light gardens. The advantages (except for "U"-shaped fluorescents and LPSs) are that they require no special fixture other than an ordinary light socket, they don't have a bulky fixture that shades natural light, they are lightweight and easy to hang or position around the perimeter of any garden. All of these lights work well.

continued on page 67

A Tale of Two Gardens

by Ed Rosenthal

Part 2





Plants grow very quickly in a mix composed of pea-sized lava and vermiculite. When they are mixed, the irregular lava becomes coated with pieces of the vermiculite, which breaks up into thinner layers, increasing the moisture content of the medium. Still, large air spaces are left between the pieces so that the roots have plenty of oxygen to breathe.

Last month, Liz transplanted into 6-inch containers. Liz's closet garden took off. In 30 days, the plants were 18" tall and growing very rapidly.

Liz changed the fertilizer solution in the trays every 10 days and kept the light about two feet above the plants. She made sure that the water level in the trays was maintained at about two inches. During the month she was away from the garden for a three and a four day stretch. Though the water level in the trays had dropped a bit when she returned, the plants were still healthy and doing fine. The plants looked vigorous and showed no signs of deficiencies.

Shortly after these pictures were taken, Liz turned the lights back to 12 hours to induce flowering.

OPPOSITE PAGE: The garden is 4' x 4' and lit by a single vertical 400-watt HPS lamp. The 6" pots sit in trays with a 2" level of water. A fish-tank pump aerates the water.



The trays were purchased inexpensively at a toy store. Each one holds six containers. Four plants are grown per square foot.



Jedd's Garden

Jedd's old plants have had a troubled life. First they lived a very stressed existence in their old home. When Jedd and his partner split up, the plants were moved to the new location. They experienced CO_2 and adequate lighting for the first time and started to fill out.

However, fate took its course and the plants were attacked by an unidentified tan-colored insect, about $\frac{1}{16}$ th of an inch long. The insect grazed along the bottom and

tops of leaves, leaving tissue exposed to infection. All of the leaves on all of the plants showed extensive damage including spots of tissue necrosis. The plants were flowering and had about three weeks to go, but the insects had zapped all their energy, so the buds were small. The variety itself was not large-budded, and with this set-back the yield is not expected to be exceptionally large.

To get rid of the critters, Jedd first sprayed them with a

ready-made pyrethrum mix propelled through a high-pressure tank. Then he used a Holiday Fogger to knock out any survivors.

Jedd started Dutch seeds in 4" x 4" Gro-Dan rockwool cubes. His table measures 8' x 12', and holds 4" cubes. The 1152 plants are all temporarily watered by hand, as Jedd continues working on installation of the irrigation system.

In order to fill up his grow space, this time Jedd has



Tray of seedlings. When they get a little taller they will be induced to flower.

decided to grow a major portion of his new crop from hybrid seed which he must generate. He is using females from his known variety, which is small budded, low-yielding and fairly potent and Dutch descendant males for pollen. Northern Lights and Skunk #1 have been placed in separate rooms with females for pollination.

Pollen is also being collected for controlled crosses with Dutch females. To catch the pollen, Jedd has constructed a

box holder and placed the male plants horizontally in it. That way the pollen does not have far to drop when the flower opens; less pollen gets into the air and more is collected.


Meanwhile, the young plants growing from Dutch seed in the vegetative growth area are doing well. They are about 12" tall and almost ready to be transferred to the flowering space. ●



A cardboard box holds the horizontally placed males close to the bottom for easy pollen collection. The boxes are covered with plastic to prevent air-drafts from picking up pollen.



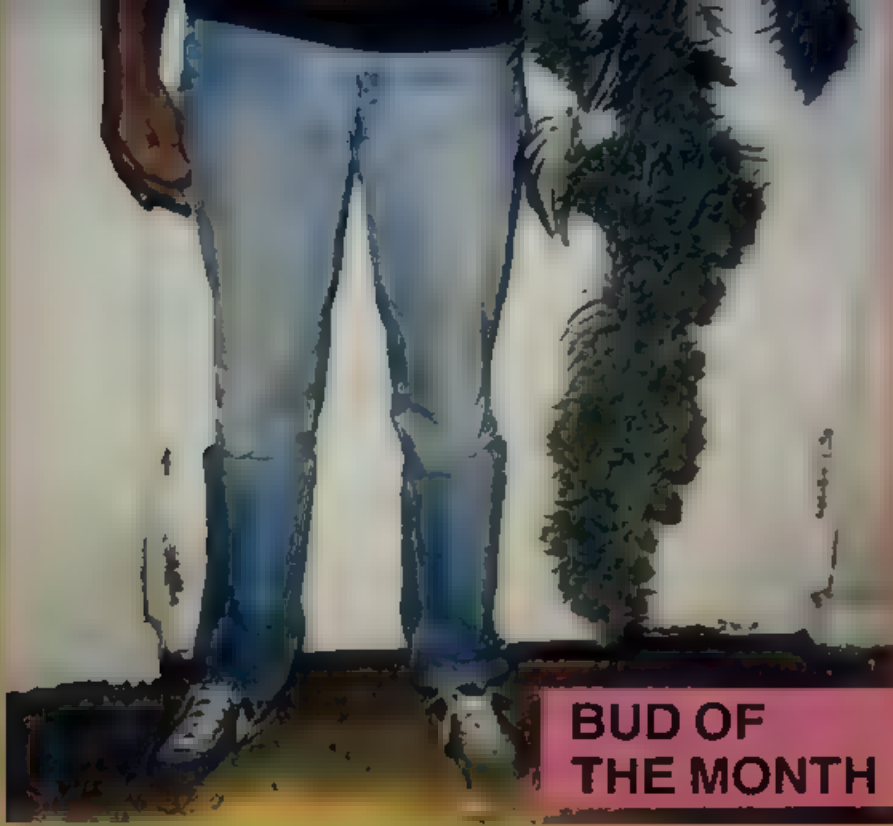
Male plant surrounded by females in the pollinating room. These females will have mature seeds within the month.



*I could be happy the rest of
my life w. th a cinnamon b.d...*

photograph by Mel Frank





BUD OF THE MONTH

This big bud was grown from seeds out of Meigs County Ohio. The plants were only 38-44 inches in height
—Anonymous
Altoona, PA



WHAT ABOUT BUREAUCRATIC LIES?

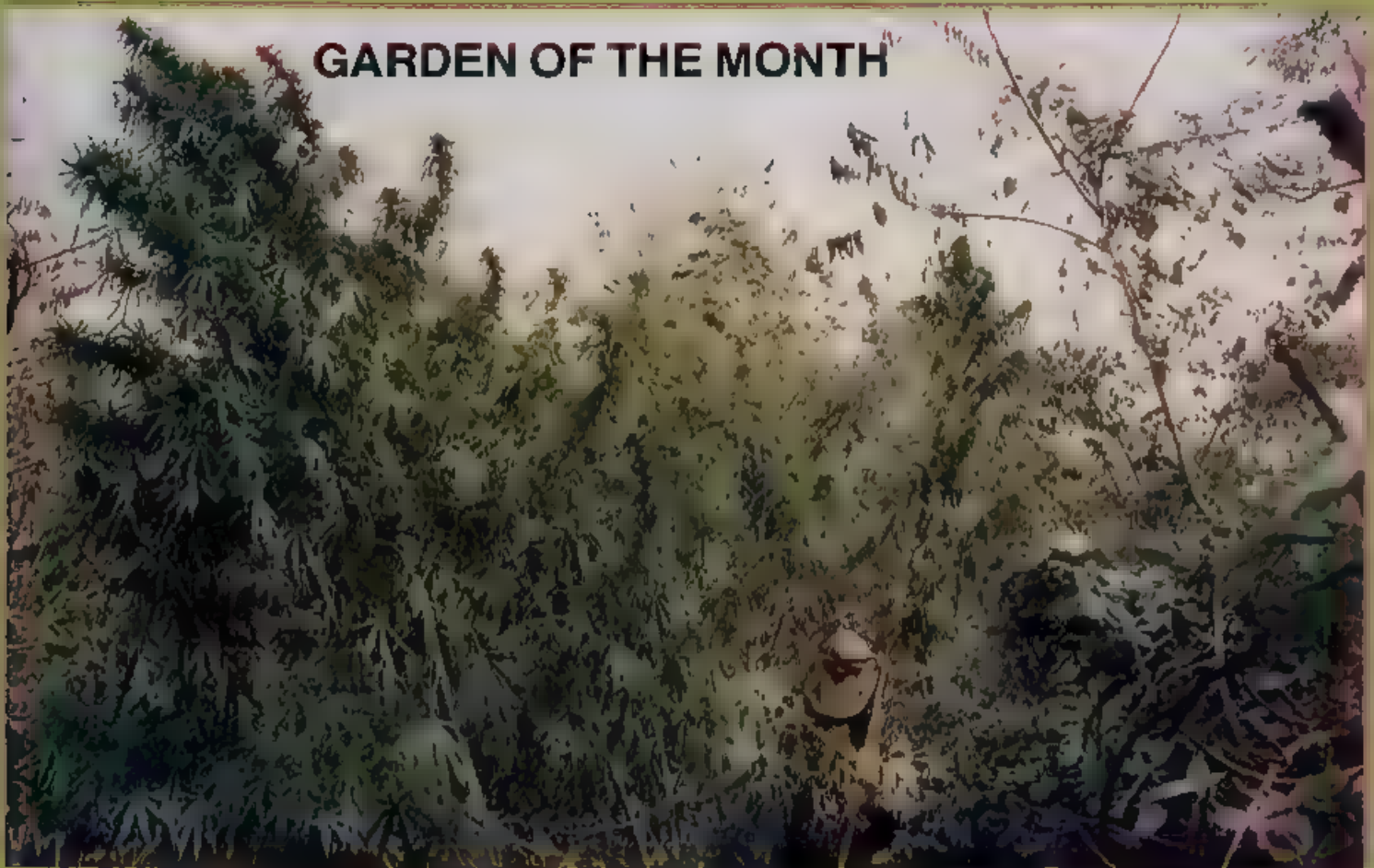
Dear Ed

I would like to know if you could tell me the truth concerning a statement by US Customs Commissioner William Von Raab concerning the Netherlands. On September 13, 1988, on the Kopper Report, he said that since the Dutch initiated a de facto legalization, property crime rates have increased, triggering an increase in property insurance rates. He stated that since the European Community nations are going to eliminate their national boundaries in 1992, they are all scared to death of Holland's policies.

—K S

Beckley, W. VA

I do not know if property crimes have gone up, but the Dutch government considers the experiment a success.



GARDEN OF THE MONTH

Despite the drought of '88, we had a fair harvest this year. The front plant is a 12-foot fifth generation Hawaiian. Animals devoured 80% of the crop this year.
KOA
Steubenville, OH

ED

With the elimination of the taboo factor, people who have been tempted to use drugs have less interest. Use of both cannabis and hard drugs has gone down, especially among younger people.

By separating marijuana from other, harder drugs, the government's policies isolated the marijuana user from other drug consumers, so (s)he had less chance of moving on to another primary drug.

Since marijuana was eliminated from the criminal process, the government can concentrate its limited criminal resources on hard drugs.

In general, drug use is lower in Holland than in the surrounding nations where drug penalties are more harsh. Although neighboring Britain, France and Germany have tried to pressure the Dutch into changing their policies, the Dutch have refused, insisting on a compromise to separate grass from the rest of the drugs.

Von Raab is full of baloney and makes unverified and even untruthful statements. Like any bureaucrat, he wants to enlarge his power and importance and that of his agency. If the Customs Service did not have to chase marijuana, its budget could be trimmed, anathema to upper echelon civil servants.

Furthermore, Von Raab should not be involved in policy-making decisions regarding drugs and society. It makes poor sense to have those charged with enforcing the law being instrumental in their formation. Von Raab probably has less information about drugs and their effect upon individuals and society than most HIGH TIMES readers.

REGENERATION

Dear Ed,

I start my plants in December and harvest buds indoors in May. After taking all the buds off I put the plants outside. By doing this I get two sets of buds. Can I bring them back in and get a third set of buds or should I clone them out and start all over?

—T.T

Polk, PA

Plants growing in containers can be moved inside fairly easily. Plants growing in the ground have a harder time moving indoors. Try to keep the rootball as intact as possible. Give the plants plenty of light. Remember, even the brightest indoor



PLANT OF THE MONTH

This is a pure Afghani strain grown indoors by a first time grower. It had a great taste and an overpowering high. Notice the crystalized buds.

—A.B.

Canajoharie, NY

environment is dimmer than winter daylight. Keep the temperature in the low 70s. Expect a high percentage of failures when transplanting grown-in-ground plants.

No matter whether the plants are in containers or not, it is easier to take clones while the plants are still in vegetative growth.

SEX BEFORE FLOWERING

Dear Ed,

Two questions:

Is there any way to determine plant sex prior to flowering?

The walls of my grow space are painted flat yellow. How much advantage

would there be to painting them white?

—C.D.

Rochester, NY

Before flowering some varieties of marijuana grow a single small flower at the node, where the branch and the stem meet. These can sometimes be seen 3-5 nodes down from the top. They are best observed using a magnifying glass or 8x photographer's loop.

Yellow paint absorbs other colors and reflects yellow. Red and blue light, needed by the plants, is absorbed by the wall. Painting the wall white would considerably increase the amount of light getting to the plants.

continued on page 57

Readers' Forum on NORML

\$100

Ed,

After reading "Ed's Complaint" I now realize how right you are. The rights of the marijuana smoker and grower are rapidly dissolving in the wake of blind right-wing conservatism. If the supporters of marijuana do not speak out now, then they have only themselves to blame when someone gets arrested for doing what he or she feels is right, but what an ignorant society has unjustly ruled illegal.

In my particular case, I find marijuana to be an essential part of my life. A short time ago, I was given a host of "safe" painkillers for my back injury. These included Percodan, Percocet, Oxycodone, Demerol, Taacn, Darvocet, Codeine #3 and others. Seven months later I realized how "safe" these drugs were when my family and friends told me how much my personality had changed from a peace-loving, caring pacifist to a short-tempered, belligerent jerk.

That was two months ago and things have turned around to what they were before the painkillers. I now only use one drug to help me deal with the pain, homegrown Skunk #1, with none of the aforementioned side-effects.

Most uninformed people group marijuana with cocaine, crack and heroin. Isn't it about time we did something about it? If everyone out there spends an afternoon doing the following things, then we will see a change in the marijuana laws for the better of us all users or not.

ONE: Write your Senators, Congressman and Governor, and tell them how you feel, even if you send it unsigned—SEND IT!

TWO: Tell three friends to do the same, and have them tell three friends each.

THREE: Send money to NORML. They will stand up for us.

FOUR: Register to vote, and vote!

Now is the time to change the course of this nation back to what the framers of the Constitution had in mind: a place in which we can make decisions without the fear of a formidable government telling us what is good for us and what is not.

Peace,

—"Doug Rush"

Dennisport, MA

Not only the governor, Doug. Also your state legislators, mayor and city councilmen

How about a letter-writing party? Get 10 friends together to write different letters to each official. To make the letters more effective:

Each writer should use his/her own words. Legislators grow wary when all the letters read the same. They tend to dismiss them as a letter campaign by a small pressure group.

Your letter should be neat, legible, polite, brief and to the point.

\$30

Ed,

Although I had good intentions, it took your recent plea in HIGH TIMES to finally get me off my butt. You're right, we must act now to keep our way of life. I'm sure I speak for many when I say we're grateful to you, Jon Gettman, Ben Masel and the few others who are willing to speak out publicly for those of us who can't. Please hang in there and don't be discouraged.

I wish the public would understand that marijuana should be in the same (regulatory) category as alcohol, rather than lumping it in with hard drugs.

From now on I shall take a more active role in our effort for justice. Unfortunately I must remain anonymous for now.

Thank you,

—Pillar of Society
Dayton, OH

\$1

Ed,

I read your complaint in the December '88 issue of HIGH TIMES about the lack of contributions to NORML. This is definitely reasonable and it has prompted me to consider donating as much as I can to NORML in the future. But I am not a wealthy person, and my modern-day survival instinct tells me not to spend money on things I don't know about. So I ask you, for the sake of NORML, HIGH TIMES, HIGH TIMES readers and anyone else who enjoys the pleasures of marijuana, to reprint your complaint, including in it information about how the donated money will be spent.

For now, I include \$1 to the NORML fund. Perhaps if you informed people how the money would be spent, small donations like the one included in this letter would increase significantly.

Thank you,
—Spiff Monkey,
Ludlow, KY
OK. Here goes.

ED'S COMPLAINT

I was in the HIGH TIMES office the other day and John Holmstrom was totalling the contributions to the NORMLTHON that the magazine sponsors. John was encouraged by the total, a little less than \$2,000. I was appalled. HIGH TIMES has about half a million readers, and they gave an average of just over one-third of a cent each. This is horrendous.

Every month I receive letters complaining about NORML's lack of action. But how can an organization function without a budget? NORML is the only national group that represents the marijuana user, yet its constituency—which regularly pays \$300 an ounce to get high—contributes just over a third of a cent to the people trying to keep them from getting busted! This is absurd.

NORML functions on a budget smaller than the incomes of some of our readers! Marijuana smokers should have more respect for themselves and the people trying to help them. If NORML had a larger budget, say \$50,000,000, a lot of the anti-pot legislation making its way through the government would be eliminated. With a budget of \$50,000,000—about a dollar per user—marijuana would be legal within a few years. When are you all going to wake up? You cannot sit back and expect positive change to take place. You must help.

During the NORMLTHON, I asked people to voluntarily send in \$1 with their questions. Most of you were too cheap to even do that. The reality is that if we want to stop the cultural genocide now taking place, we have to stand up for our rights. Supporting NORML is one way of doing this.

GIVE AN OUNCE. That's right. Each grower, smoker and dealer should give the dollar equivalent of an ounce of weed. Whatever an ounce of the weed you grow, sell or use costs, give

that each week or month. If you don't contribute, the laws will never change

Think of your contribution as a kind of insurance. It is much cheaper than hiring a lawyer when you get busted. If you are paranoid about having your name on a list, you can still give anonymously, so that's no excuse. You can send checks payable to NORML to me. I'll make sure they get them.

Don't disappoint me. Send your money now. NORML needs it.

NORML is a poor organization. It has minimal offices in a nondescript commercial section in Washington, D.C. Its full-time employees are paid minimal amounts, and the organization is always behind in both wages and rent. Still, it allocates its limited resources wisely.

Most of NORML's funds are spent educating the public and legislators about the perils of current marijuana laws and proposed repressive legislation. NORML speakers were well represented at the recent Congressional hearings on drug legalization.

NORML marshalls top-name lawyers who work for free for legalization, but resources are also spent on lawsuits. NORML lawyers and funds have been supporting the 17-year-old suit against the DEA to reclassify marijuana for medical use. Recently, the Administrative Law Judge ordered the DEA to reclassify the substance. The legal battle is continuing and NORML has a number of other suits going, as well. That's where the money goes. NORML will need a lot more of it to make pot legal.

55

Ed,

I've enclosed \$5 for NORML. Even though finances are tight, I'll give up something for a right I believe in. Your complaint really made me think. I'll be sending more after the holidays. Take note cheapskates—it's time to decide how bad you want legalization. I quit smoking for three weeks to afford my growing system. It's time to make sacrifices

—Overstocked
Skunk, MI

Dear Ed,

Your lambasting of apathetic potheads is absolutely correct. Here's \$5 to contribute to NORML. I know it's cowardly to donate without giving a name, but, as a professional, I am paranoid about being known as a pot user

continued on page 82



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ASK-ED

continued from page 53

FLOWERING HEIGHT AND MORE

Dear Ed,

I have a grow room 6' x 7' x 7'. I'm using a 1000-watt MH with a conversion bulb. The room is constantly ventilated and has an oscillating fan. The temperature is a constant 80-84° with 30% humidity. I also have a small closet I use for clones and seedlings in which I use two 4' fluorescent tubes. Any suggestions?

At what age should I place my seedlings and clones in the grow room?

When the grow room is in a 12-hour cycle, can a person enter the room with a flashlight that emits a red glow and not disturb the flowering cycle?

—Bad Bob

Star City, Nebraska

Two suggestions. You did not mention CO₂. Would it be possible to add it to the space or does the constant ventilation make it impractical? The temperature is on the high side. You might get slightly higher growth rates if the temperature was lowered to about 75°.

The plants should be placed in the grow room when they are no taller than 12". When they are ripe, indoor varieties will be 2 to 3 feet tall.

Red light is used by the plants to measure light and dark cycles. Green light is not used by the plant at all, so use a darkroom green bulb. They are available wherever photographic darkroom supplies are sold.

THE HAZE

Dear Ed

For years now I've been hearing about a strain of pot called Haze. Just what exactly is this plant, *indica* or *sativa*? What parts of the world is it native to? Any other particulars?

—K H.

Media, PA

Although I have never met the gentlemen, acquaintances claim to have met the originators of this variety, the Haze Brothers. They supposedly developed the strain in central California, along the coast, possibly near Monterey.

I think that there were several different generations of Haze plants. The one I am most familiar with is a mid-to late season *sativa* with a strong spacey high.

If the Hazes are reading, please communicate.

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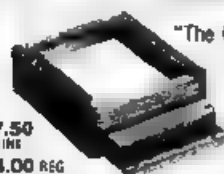
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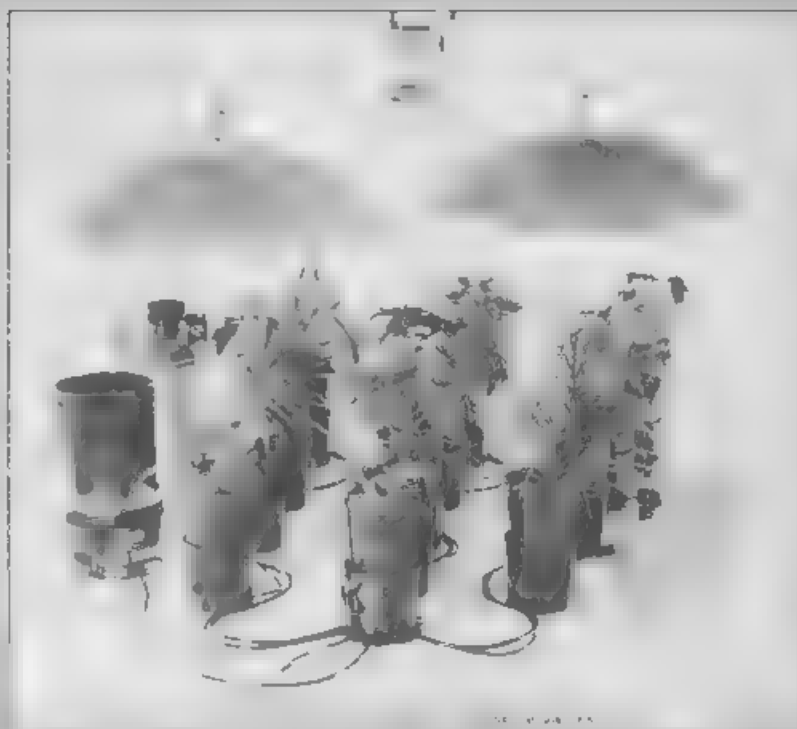
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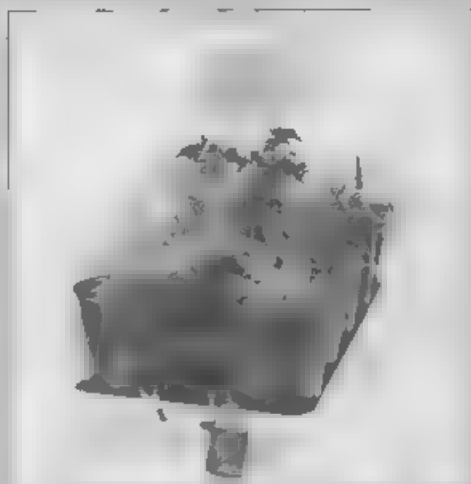
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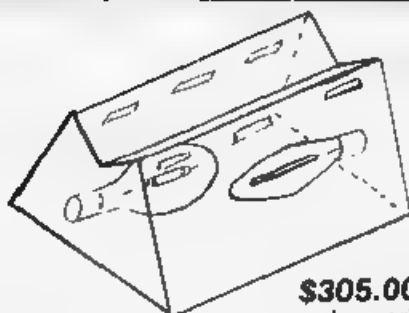
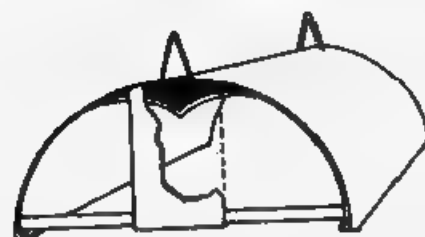
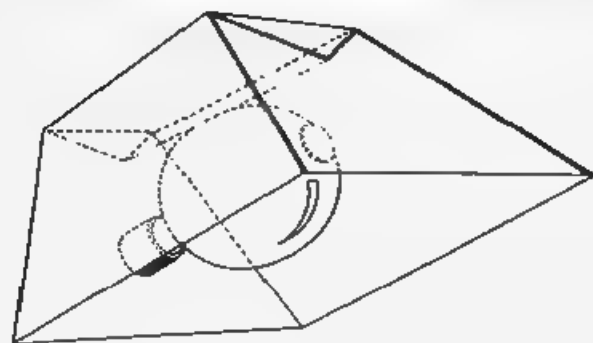
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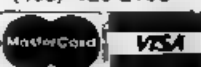
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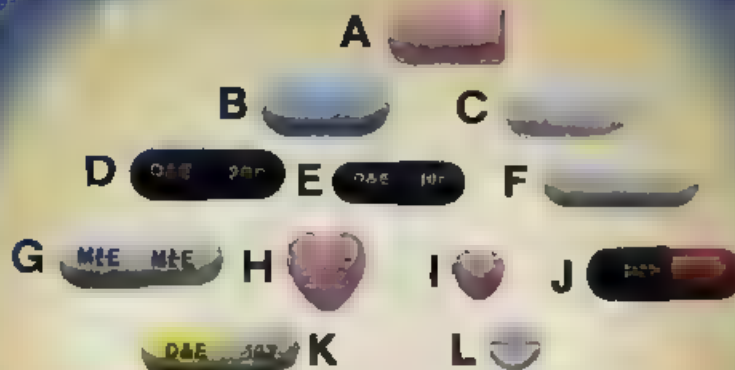
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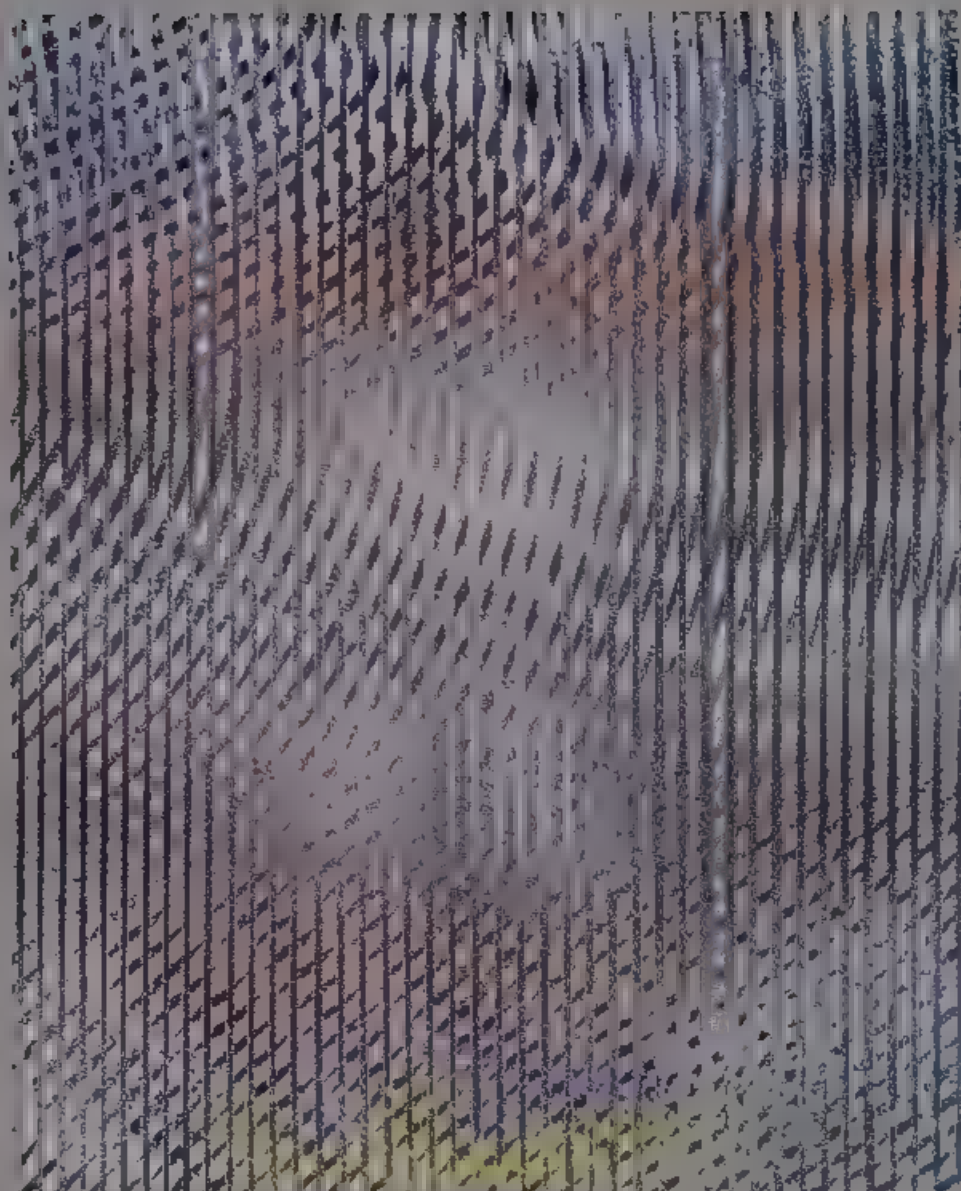
by Carlo McCormick

Steve Di Benedetto

Perhaps it's just some nostalgic fiction, but it seems that our collective clarity of vision and stability of perspective has gradually deteriorated as the pace of western culture has continued to accelerate. It is just such a condition of dissolving humanistic frameworks and blurred perceptions that Steve Di Benedetto's paintings address—a sense of creeping corrosion within our technocratic landscape, as well as the sources of disruption behind these malignant effects. The optical distortions, analytical disorientations, and confusing incompatibilities between different patterns of colliding visual information create on a two-dimensional plane a hypothetical space that is in a deep crisis of uncertainty.



Domestic Paralysis, 5' x 5', acrylic on canvas.



Tenor, 8" x 10", acrylic on canvas.

Informed by scientific experiments with moiré patterns and similar constructs of visual cross-referencing and deconstruction, as well as by the aesthetic advances of '60s Op Art, Di Benedetto's paintings are broader metaphors that are very much aware of, and speak directly to, the hysteria of media overload and the panic that has seized society in this age of high-velocity cultural flux. Although one can enjoy these paintings for their trippy pleasure, it is important not to lose sight of the ominous climate that has engendered them. The cacophonous voices of mass media and the grand specter of expanding information,

entertainment, and technological mechanizations have become insistent and incessant background channels that constantly converge upon and invade our lives.

Can we honestly say that we see things clearly, now that we must focus on so much more, or that we have the same sense of self, of our own individuality, in the face of such a rampant infection of dehumanizing institutionalizations? Di Benedetto finds the innermost fear within us, as we instinctively oppose the invisible enemy called progress. His pictures tell of that point of diminishing returns where we will all drown in a murky sea of sameness. ●



Trend, 8" x 10", acrylic on canvas.

Interview: Victor Bockris

"Fame is a Drug"

by John Holmstrom

Victor Bockris is best known as a chronicler of '70s alternative culture, focusing on the people who created it. His writing credits include: *Alt-Fighter, Poet, Prophet* (written with Andrew Wyhe, 1974); *With William Burroughs—A Report From the Bunker* (1981), *Making Tracks* (with Debbie Harry and Chris Stein of Blondie, 1982), and *Up-Tight: The Velvet Underground Story* (written with Gerard Malanga, 1983). Victor spent five years working on his latest tome, *Andy Warhol: The Biography*, (Bantam), which will be out in October.

This is another interview in a series that has been running for the past year in preparation for a special issue of *HIGH TIMES* devoted to the life, times, and memory of Tom Forcade, the founder of *HIGH TIMES*.

HIGH TIMES: How would I describe what you do?

Victor Bockris: (long silence) I guess I'm still trying to figure it out myself. I'm a writer. For the last ten years I've spent my time writing about people who I thought should be celebrated more in the culture than they were. William Burroughs is a good example. In '74 at the beginning of the whole punk thing people were very frightened of Burroughs. He had a very frightening aura around him—heroin addiction, homosexuality, this heavy metal aura—which at that time was very confusing to people. I think people took him very seriously. I met this man who was very funny, very alive, totally demanding to be with, and generous. I said to people, "Hey, this guy is great. And if you read his books, they're really funny."

That was the beginning of when I found there were many people whose work was misunderstood. I guess the ultimate example of that is Andy Warhol. To me, these people were cultural figures who were very important and had an enormous effect on a lot of people. I thought if they were better understood and appreciated as people, their work would be better understood.

This may sound strange, but a lot of people missed just how great Warhol really was. I don't mean personally. I didn't hang out with him. I just dig what

(left to right): Victor Bockris, Chris Stein, William Burroughs, and Debbie Harry in 1980.

this guy was doing. So swift, and so on target. It's messed because of the horrible myth created around Warhol, which he, of course, played a large part in creating. It kept people in great fear. People were terrified of this man, terrified! They didn't want to look at his work, for fear they would get upset or something. People were frightened of those films in the '60s, like *Chelsea Girls*. The *New York Times* said, "The time has come to put a spoke in Andy Warhol's wheel." Like... Get rid of this man.

I was amazed that people would not recognize the assassination attempt against Warhol in June of '68 as a political assassination, directly in line with Martin Luther King and Robert Kennedy. King was in April, I believe, and Kennedy was one day after Andy. I've read so many books in the last five years about the '60s, and hardly any of these books even mention Andy Warhol. **HT:** Whether you like his work or not, that's hard to understand.

VB: In 1972 and 1973, he was like a criminal in our country. People don't remember what was happening then. When Warhol released *Trash* and *Heat* in '70 and '71, it caused a great deal of hostility. It was a very confused time-period. Of course, in the mid '70s, all that changed radically.

I know it was also true of Debbie (Harry). When Debbie first hit with Blondie, before they became very, very successful, she told me people were scared of her. When she traveled around the country doing radio shows with her first album, she was this punk chick in a black miniskirt. People thought she was going to rip off their pants or something. I mean, she's a very sweet person, she

walks in a room, and someone's scared of her!

HT: What are you doing now?

VB: I'm in a very interesting position right now, because I've come to the end of a long period of work.

I was pretty close to finishing the book on Warhol, and then he died in 1987, and the whole thing blew up on me. It was a really wonderful experience, because it was so powerful. It's totally wacky to have your character drop dead on you just as you're finishing a book about him. But for Andy Warhol to die, and shock the whole world, I suddenly realized that New York was coming to the end of a period, and it was marked by this.

As a writer, that's what I want to write about—what I admire. It doesn't necessarily have to be a celebrity. It could be a plant, this beautiful herb that only grows in North Africa, and I'd write a book about it. But my thing, what I admire, is people. I like people. I'm not interested in anything but people. Not anything! I don't care about airplanes, or horses, or houses. I just care about people in terms of if they amuse me or interest me.

I recently figured it out—what people are most interested in is relief from their situation. Everyone is under a great deal of stress, and if you can relieve them, you've really done them a great favor. To me, it's a much bigger favor to give someone relief than to harangue them about your problems.

For example, I wrote a piece called "Negative Girls" which was published in *HIGH TIMES*. That was one of my greatest experiences in writing. That piece got published in five different languages and was really successful. I



BOBBY GROSSMAN

was quite surprised, 'cause I didn't even try to push it, it just got picked up and translated. Do you remember it?

NT: Yeah. I remember that I knew most of the girls you were writing about.

VB: I thought, "This is great. This is what I want to do." So, after I finished working with Debbie (Harry) and Chris (Stein) on *Making Tracks*, I went down to Philadelphia and rented this basement with a big desk and a typewriter and decided to write this *Negative Girls* book. I figured in eight weeks, I could write 200 pages on this thing.

I went totally bananas. I just was completely crazed. I mean, I started having spontaneous ejaculations at the typewriter. I couldn't control myself. And then, the girl who I was writing it about called me up one morning, after five weeks of this, and said, "Listen, I have to tell you this before anyone else tells you. I'm getting married."

Finally, I said to myself, "This stuff is bringing me down. Why am I doing this? What's it going to do to other people when I put out this shit which says, 'Dig this heavy, negative, horrible scene.'?"

I had a really influential conversation with Debbie when we were writing *Making Tracks*. She said that in her early twenties, she really wanted to sing the blues. She was very depressed, she wanted to sing the blues, and she thought she had the power to be a blues singer. But she also felt that, if she did, she would die by the time she was 28. And she didn't want to die. She also said she didn't want to pass on that negativity. She had this other strong sense—singers are meant to make people feel happy, and pass on a vibration of happiness. And that's what Blondie's music is—very "up" music.

NT: What else did you do for *HIGH TIMES*?

VB: I spent some time with Keith Richards once. He was working with John Phillips on some album, and we went to this recording studio. He was a great guy. It was right after his heroin bust, and he gave an interview to *HIGH TIMES*. His manager came to the studio and begged him not to give the interview, and he came over and went, "Let's go," and we left. He drove us in his car. It was like six in the morning, and he was screaming up the street, and we yelled, "Keith, this is a one-way street!" and he went "AAARRRRRGH!" I was saying to myself, "This is great!"

He sat down and talked for hours. We spent 24 hours with him. We actually did very little drugs. He was one of those people who really knew how to pace drugs. And he drove us back. He told me

specifically that he loved *HIGH TIMES* and wanted to do an interview because he really believes in *HIGH TIMES*.

It's interesting, I was just making some notes the other day about my memories of the '70s. Like I was saying earlier, I was running around with Burroughs, and Warhol, and Debbie Harry, but I was running around with Tom Forcade at the same time. Those notes are cross-referenced, because I introduced Burroughs to Forcade, and Warhol to Forcade. We had a big dinner together. Forcade founded the Nova Convention [an event commemorating Burroughs' work in 1978]. Not to a great extent, but he gave it money when it desperately needed it. The Nova Convention happened very shortly after Tom died. I remember the first thing Burroughs asked me when he came into town was "What happened to Forcade?" Tell me the whole story."

I had this fantastic time in California with Forcade, when he seemed to be at the height of his powers. We had a number of meetings. We got involved with Robert Evans, one of the largest, most powerful producers in Hollywood. He produced *Chinatown* and all sorts of famous films. He's one of those really good-looking Californians who was busted for cocaine at some point, and sent to jail, but that was a tragic thing.

You see, there'd been this terrible film, *Cocaine Cowboys*, made by Uli Lommel, who is an offshoot of Fassbinder. There's a whole chapter to the Tom Forcade story here. Forcade came into the movie from a weird angle, after they made the film.

The film was really dreadful. Andy Warhol and I are in it. Andy was in lots of movies, in which he had played bit parts, but this was the last one he was in. They were renting his house, and paying him a good fee, and offered him an extra \$4,000 to be in it. When I was travelling with Forcade, he was trying to sell *Cocaine Cowboys* to Robert Evans. It turned out Evans was just trying to get good pharmaceutical coke from Forcade, so Forcade became sort of upset. He figured he wasn't being taken seriously by these movie people. They were just seeing him as a drug dealer, which he wasn't.

At that time, being a correspondent for *HIGH TIMES* was a very hot ticket. That was when Cheech and Chong's *Up In Smoke* made thirty million dollars. The first few days I was in Los Angeles, it was very funny. I became a social focus point for this intellectual Hollywood scene, which consisted of Kenneth Tynan, Christopher Isherwood, a very famous

writer of the '30s, and Burroughs. This was the hot scene, so the next day, Tom flew into this situation, and suddenly we were rushing out to all these meetings. *National Lampoon* had made an enormous amount of money on two movies, so Tom figured, "Why shouldn't *HIGH TIMES* make movies?"

Forcade's death coming when it did, a few weeks later, is part of a pattern which needs to be stitched together. That's something I'm interested in getting into—that subject about time-periods, the cultural history of that time. Just the history you and I know is fascinating. At least, presuming hypothetically, for the sake of the conversation, that these characters are important, Warhol and Forcade.

Andy Warhol and Tom Forcade were quite similar, in a way, because they were leaders who belonged in a situation, got a whole bunch of people involved, and kept things happening. It was always fun to see them, because the next thing you knew, you'd be in a helicopter or something.

NT: I didn't know Andy Warhol was as adventurous as Tom Forcade.

VB: Oh yeah. Very adventurous. Andy was always going somewhere. Tom was fun, too. The celebration, the key to my theme, celebration. Tom Forcade was a celebrator. I remember him saying, "Pot is a tonic. It makes you feel good, because then you can work harder."

He loved to work, he loved to do things. Tom loved to talk, he loved to live. He didn't really like coke. It made him uncomfortable. He did this cocaine with Robert Evans and hated it afterwards. He didn't like drugs that much, I don't think. Just pot.

continued on page 68



Victor Bockris, party animal

ASK-ED

SMALL PLANTS

Dear Ed,

Starting with seeds from some fine Arizona buds, I recently attempted to grow in the soils of north Georgia (red clay) by first digging out large holes and filling them with potting mixture. I started the plants indoors and they did real well for about two months after being transplanted outdoors. I don't know what went wrong, the plants got plenty of water and sunlight, but after 5 1/2 months my seven plants were 4 1/2" with small buds that had fully mature seeds. The grass smoked harsh and had a low buzz factor. Would these seeds produce equally poor plants if grown under better conditions? What should I do differently next year?

—Stunted

Atlanta, GA

The plants probably suffered from two problems. First, there were probably pH problems. Clay soil is usually very alkaline, but if it is covered with pines it might be quite acidic. Both high and low pH will stunt growth. Secondly, the holes may not have had much drainage, so that the roots might have gotten a little waterlogged periodically. This could hurt the plants.

Next year, check and adjust the pH periodically and make sure the holes have some drainage. This is usually accomplished fairly easily by planting on a slope.

Another possibility was that the plants were naturally small growing, not very vigorous bushes, or that the plants were adapted to growing in a much different environment.

If the seeds have the genetic potential to produce good buds, that genetic potential will not be lost because of poor growing conditions encountered by a previous generation of plants. Are you sure the seeds have great genetic potential? Good seeds are the best and cheapest way to assure a good crop.

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—Uncle Ric,

Galveston, TX

continued on page 73

GOLD continued from page 39

but the engine wouldn't start. I opened the door and saw that mud was up to the axles.

"Come on!" Ace shouted, jumping out. "Let's get out of here! They'll never find us in the woods!"



JAMES ROMBERGER

hat about my car?"

"What's more important—your car or your ass? Tell 'em somebody stole it. Come on!"

We raced through the woods, Ace clutching his package and leaping like a gazelle through the underbrush. We could hear sirens in different directions now; they seemed to be all around us.

"Ace, you'd better ditch the stuff, man! Hide it somewhere—we'll come back for it."

"You kidding? We'd never find it again. Could you find where we are again? Don't worry, they won't find us. We'll hang out here 'til dark. Look there!" He pointed to a thicket. I followed him as he crawled through the shrubs and down into a depression in the middle of the thicket.

"Just look at this!" He gestured around with his hand. "A perfect hiding place! Just relax. Here, don't worry." He handed me a joint.

We lit up and he leaned back against a stump and relaxed. We passed the joint back and forth, and I began to relax my tense vigil. Even the scream of the sirens seemed to recede into the distance. The sunlight streamed down through the trees making beautiful speckled patterns on the variegated forest litter and the clumps of mayapple which shared our burrow. I looked up and saw the sun dazzling through the shimmering veil of leaves. The wind whispered through the trees and blew away the buzz of the sirens.

"I wonder why this kind of junk only happens when you're stoned?"

"It's the dasein, man; it's the dasein."

Then I became aware of movement in the bushes in front of us, and suddenly a head with blue hair and steely blue eyes was facing us.

"Aha! I thought I smelled smoke! Here they are! Police! Police!"

She jumped for us, waving her umbrella, and I felt a blow glance off my back as I scooted up and through the bushes, a hair behind Ace.

"Get rid of the stuff, man!" I yelled at him as we darted out of the thicket and panted up a hill. "Get rid of it!"

"No way, man. She's just an old lady. Come on, up here!"

We ran up a hill towards a highway embankment. The sirens shrieked behind us. I glanced back and saw the lady maybe a hundred yards behind us, pointing her umbrella at us and gesticulating madly at a bunch of cops maybe two hundred yards behind her. We raced up the embankment and came out on a wide highway with traffic zipping by in both directions. We could hear sirens in the distance, both ways. Ace stopped running and casually stuck out a thumb towards oncoming cars, as if to hitchhike. No one stopped. I glanced down and saw the cops starting up the embankment. I grabbed the package from Ace and ran to the bridge over the Wissahickon Creek, tearing at the paper as I went. Ace took off after me, yelling, "Hey, man! Wait, man!"

I reached the bridge and turned the package upside down and shook it. Ace reached me with a look, first angry and then resigned. We looked down from the bridge. The golden leaves were falling down gently in the breeze, barely rippling the water as they joined the leaves of the oaks and tulips on their journey to the sea. I wadded the Spanish-language newspaper into a ball and threw it into the creek. It floated for a while, then began to sink. I felt Ace pulling urgently at my sleeve. I turned around, and all I could see was cops.

Well, we had a good lawyer, and he got us a reduction from possession to disturbing the peace, since all they really had on us was some seeds they found on the floor of the car, although I did have to pay a good, stiff fine, but damned if I didn't get my operator's license suspended, for passing a stop sign. ●

Lights continued from page 45

enough as supplements, but MHs or HPSs and fluorescents work much better as sole sources of electric light.

Types of Bulbs and the Light Spectrum

The white light of electric lamps consists of all the colors (wavelengths) of the visible spectrum (colors of the rainbow). Electric lights differ in the amount of light radiated in each color band; this gives them their characteristic color tone or degree of whiteness. For example, an incandescent bulb (common table lamp) generates mostly red, orange, and yellow light but very little blue light, hence it appears orange/yellowish. White fluorescents have a more balanced spectrum, so they appear white. You can trust your eyes to tell you whether a bulb predominates in blue or red because it will have a bluish-white color or a softer pinkish tone. A glance at a metal halide (MH) tells you that its spectrum favors blue because of its blue-white color. High Pressure Sodium vapor lamps (HPSs) appear pinkish-orange; their spectrum is much richer in the yellow, orange and red regions of the light spectrum.

Plants use light energy primarily in the blue and red regions of the light spectrum to carry on photosynthesis and chlorosynthesis, the two life processes that plants use to transform light energy into biochemical energy for growth. For healthy, normal growth plants need adequate amounts of radiant energy in both the red and the blue regions of the light spectrum.

Fluorescent Lamps (Tubes)

There are innumerable fluorescents manufactured for plant growth vision and for special lighting effects. Since

white light contains all the colors of the light spectrum, plants get some red and blue light from any white light source. Plants actually use light of all colors to some degree, except for green light, which they reflect or transmit (this is why plants appear green).

To take advantage of the use of red and blue light by plants, Gro-Lux, Agro-lite, and similar purple-looking "Plant Gro tubes" were designed to emit primarily red and blue light. Much of the manufacturers' talk of plant growth and tube type (or spectrum) is simply hype. There are several less-expensive regular fluorescents manufactured by many companies that work at least as well as if not better than these Gro-tubes. Don't be swayed by manufacturers' claims. In practice, as long as the lamp produces sufficient red and blue light, the higher overall output (lumens) of white lamps more than compensates for their lesser output in the blue and red regions. Gro-lamps work well enough, but given the choice, choose those lamps recommended here since they'll work at least as well, are easier to find last longer, and are usually much cheaper.

Manufacturers use standardized names, such as "Daylight" or "Warm White", to designate a fluorescent tube that has a certain degree of whiteness. Each name corresponds to a tube that emits a particular combination of light in each of the color bands. For example "Daylight" emits more blue than red light and appears blue white. By matching a tube that predominates in blue light with a tube that emits more red light, the tubes complement each other, and produce better plant growth than if either is used alone.

HIDs—Metal Halides (MH) and Sodium Lamps (HPS)

Once you decide to use MH or HPS lamps, the next consideration is what

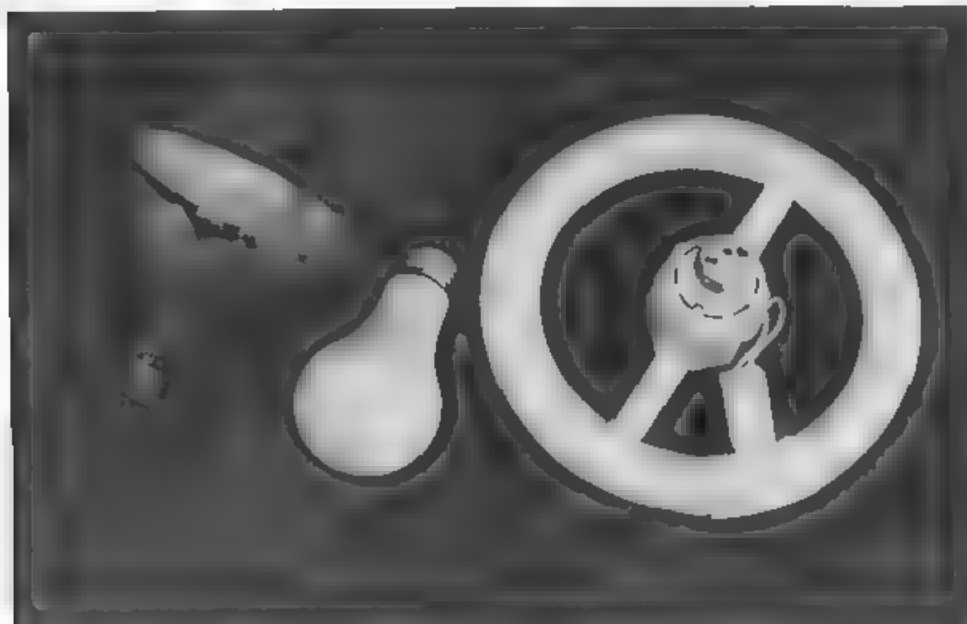
bulb to buy. There are some small but noticeable differences in growth when comparing an MH, a super MH, or an HPS. MH bulbs may be coated (diffuse) or clear. The coated bulbs have a slightly more natural light spectrum than clear bulbs, but the coating reduces their output by about five percent. For an MH garden, a clear, super MH gives the best overall results because the plants grow slightly faster than under regular, coated, or diffuse bulbs. The light output (total lumens) is far more important to the rate of growth than the particular spectrum.

HPS lamps emit more overall light (lumens) than any other bulb, but most of the energy is in the yellow, orange, and red bands. Despite their unnatural light spectrum, HPS lamps give the best return for electrical and bulb costs. They're also relatively safe to use compared to MH lamps, and the initial set up and the ongoing care of plants is easier under an HPS when compared to fluorescents.

HPS lamps sometimes give inexperienced growers problems when starting seedlings, because the abundance of orange and red light causes seedlings to stretch or elongate toward the light. If this is a problem, position the lamp closer to the seedlings or use a small fluorescent system to start the seedlings, then move them under the HPS after about two to five weeks. The combination of a small fluorescent system to start seedlings and an HPS for growth and flowering is the best overall light setup you can buy. HPS bulbs emit about 25 to 50 percent more lumens of light than MHs, promote excellent flowering, and last about twice as long as MHs. They also can be mounted in the new horizontal reflectors which increase the light directed to the plant by 20 to 45 percent. Overall HPS lamps are your best buy and are your best performers except for starting seedlings and rooting clones.

HPS bulbs are less trouble if you are growing in an outbuilding that is susceptible or open to insect invasions. The yellow-orange color of an HPS does not attract night insects, whereas all white lights (all MHs) attract insects in droves.

Growers using several HID bulbs often balance the light spectrum by mixing HPS lamps and MH lamps, or by using HPS lamps only for flowering in rotating gardens. Preliminary scientific studies in England support this balancing. During foliage growth, the spectral distribution best for growth decreases in the following order: red, blue, and yellow-green. During flowering, the decreasing order should be red, far-red, blue, and yellow-green. The combination of an HPS with an MH gives additional red and far-red light to the overall light spectrum for flowering. ●



A spotlight, common incandescent, and circular fluorescent.

BOCKRIS

continued from page 65

You know, I think what screws these people up is, they have to be uptight. That's why I called that book (about the Velvet Underground) *Uptight*, because that's what fucked those guys up. I mean, Lou (Reed) was so uptight. He's so great, but he's so fucking uptight, and after awhile, it's like ...

MT: Have some fun, you're famous!

VB: Yeah, it's great! But all these guys were uptight. Debbie and Chris were uptight. When they were at the top, they were uptight, they couldn't help it. Debbie and Chris are so brilliant, so talented. Imagine this couple who love each other, sitting in a hotel room, writing these great songs, and the whole world is listening to them, and they're getting totally screwed by some jerk-off. They're in some hotel room in Marseilles and they get a phone call, "Give this guy two million dollars tomorrow." And that's all the money they had. People were saying about them, "Those rich rock stars," but, it was fucking horrible, disgusting.

It happened to Andy a lot, it happened to Lou a lot, it happened to Tom a lot, Muhammad Ali—what a screwing he took! Fame is not that much fun, actually. It's a drag.

MT: It's funny that you say that about Andy Warhol, because he's a person who seemed to enjoy being famous—like his "everybody's going to be famous for 15 minutes" quote.

VB: Yeah, fame made Andy happy, but, put very simply, fame is a drug. Anyone who's ever been addicted to drugs, or read about it, must recognize clearly that the big bummer of drug addiction is, that when you first take any drug, and really enjoy it, you say, "Wow! This is great! You can take this every day and feel like this?" Heroin being the most extreme result, in the end, you have to take it just to feel alright. Which is really a drag, because it costs an enormous amount of money, and it's hard to get. So, a drug is not much fun to be addicted to. It's fun to take it, it's not fun to be addicted to it.

Fame is very similar. It's a hell of a lot of fun to be famous, particularly in American culture, which celebrates it more than anything else. But to be addicted to it is really a big problem. Fame is as demanding as a drug, and it cuts you off as much as a drug. It cuts you off from being able to relate to other people, and it's very demanding on you. Andy said that it's much, much better to be rich than it is to be famous.

continued on page 86

LETTERS

continued from page 14

WOODSTOCK II?

Please confirm the rumors that I have been hearing concerning the 20th anniversary of Woodstock. Is it true that, this August, rock n' roll type party animals (such as myself) will have the opportunity to congregate at the same farm in New York?

—Limbo
Huntsville, AL

As far as we know, no plans have been made for a Woodstock reunion. Perhaps *HIGH TIMES* should start organizing the party since it coincides with our 15th anniversary.

PLANT MORE SEEDS!

I am massively enjoying *HIGH TIMES*' renewed interest in politics. Can't we turn the system against itself? My suggestion is to plant seeds in a neo-Nancy's front yard. Then—a month or two later—use the secret witness number to inform the authorities. Every seed should be planted! How about plastic marijuana plants in obvious places to confound the cops and waste their time?

—Sgt. Sativa
Reno, NV

If every potsmoker planted every seed they get their hands on, we could accomplish a number of things. First, we'd be fulfilling the Creator's intentions. Second, it would drive the over-paid fascists out of their minds. It is, of course, hard to resist planting on the police station front yard, so toss a few there.

—Dragonfly Sowing Seeds
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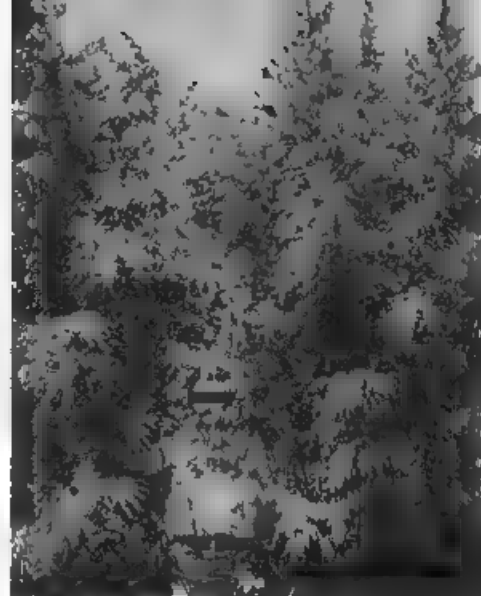
NO SMOKING

I cannot smoke marijuana as it causes lung discomfort. Please advise me on how to begin drinking or eating THC.

—J L H.
Cincinnati, OH

Instructions on the preparation of cannabis for cooking can be found in the November '87 issue. Also, synthetic THC pills can be obtained with a doctor's prescription. Pills are marketed under the brand name Marinol, generically Dronabinol, and distributed by Roxane.

• Send your letters to *HIGH TIMES* "Letters," 211 E. 43rd St., NY, NY 10017. Names are not printed (just initials) unless specifically requested.



BLIND BUZZ

I took this photo for my Christmas card and I thought you might find it interesting. I am typing this letter on a talking typewriter that I made, because I'm legally blind. I'm 41 years old and enjoy getting a buzz on.

—B F
Somewhere in Massachusetts

GO HOUND!

I've been reading your rag from the beginning and I have to tell you I love James Marshall. He's right on every time. Keep up the good work and don't be intimidated by cry-babies.

—Rasta Redneck
Bolivar, TN

HEMP CLOTH

Maybe it is possible someone out there knows how to make cloth from hemp? It would be a good use for my lumber that currently gets shoved under the bushes to rot.

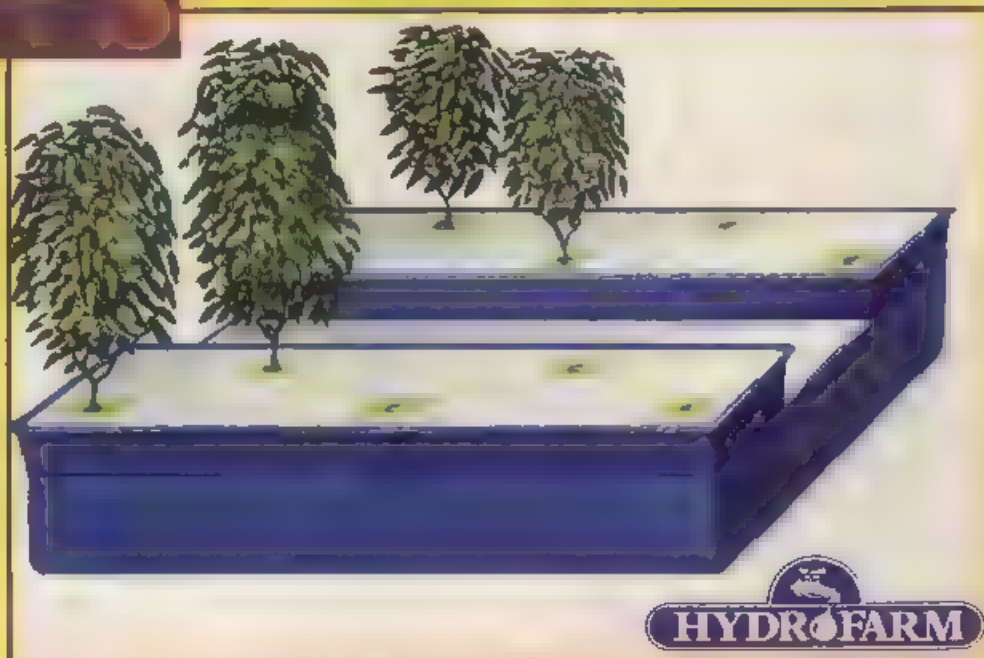
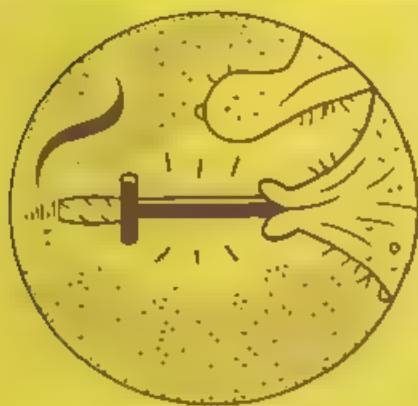
—Bud Good
Manchester, NH

Hey readers! Anybody out there got an answer? We'd love to run an article on homemade hemp cloth.

ERRATUM

In the February '88 letters page we ran a letter concerning seed catalogs from Holland. It should have been noted that the Seed Bank ships its catalogs from inside the US. So, if you order a free catalog from the Seed Bank there is no chance of it being intercepted by Customs. Also, in an ad for the *Cultivator's Newsletter* we mistakenly credited Rob Clarke with a master's degree he has not yet completed. Sorry, Rob.

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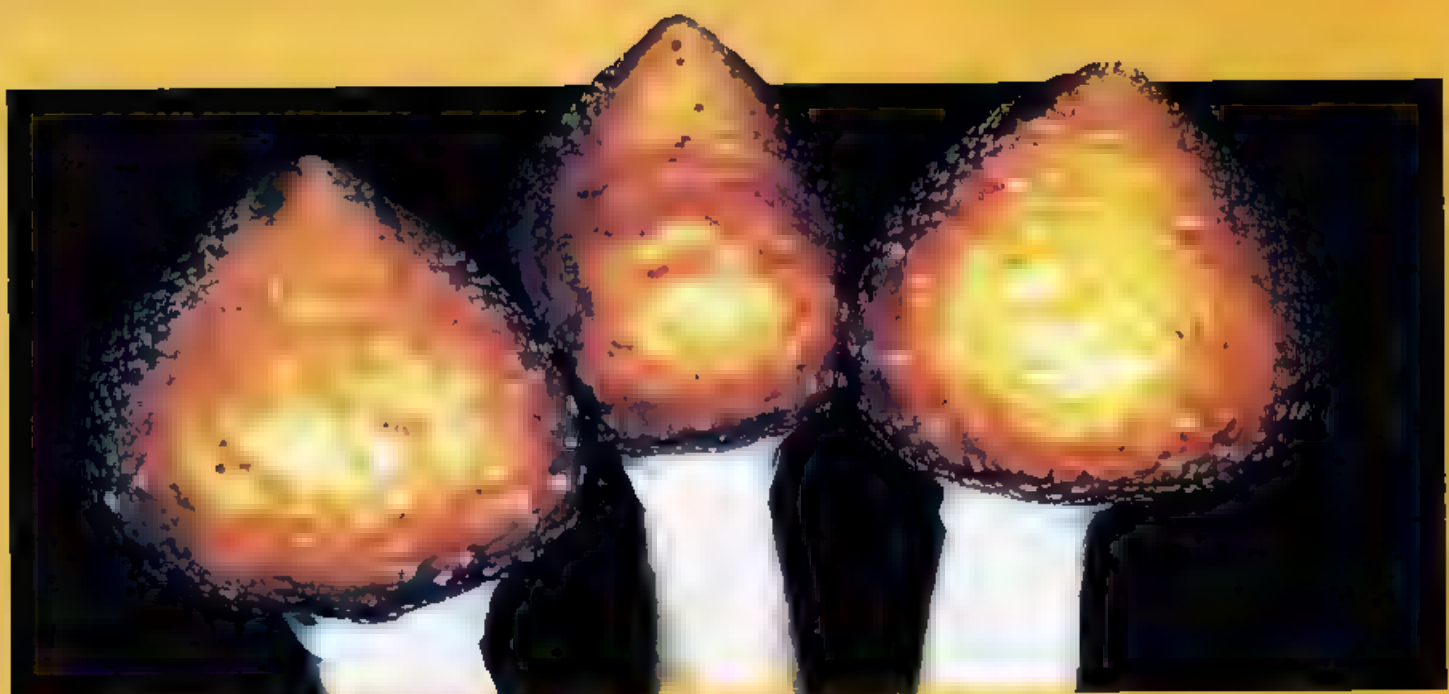
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BIGFOOT

continued from page 35

mellow, just don't shoot!" Ten seconds ago, I was ready to "Dirty Harry" this thing and now I didn't know what in the hell to do. I moved my hand away from my gun, lowered the flashlight and hoped like hell he wouldn't attack. To my great relief, he didn't move at all.

In the full moonlight we could actually see each other pretty good and as the seconds ticked by, I actually started to calm down and relax a bit. He really did look passive, like he was just checking me out, seeing what I was up to. All of a sudden, he reached his big long arm over to my nearest pot plant and just ripped the main bud right off. At first he sniffed it and then he put the whole damn bud in his mouth and started to chew on it. I was completely blown away. Amazed but pissed off, my anger overcame my fear and I yelled at the bud-snatcher. As I barked out at him, it dawned on me that this huge dude could probably snap me in two. Nervously, I awaited his reaction. I expected violence, but it never came. This guy was definitely the most laidback wild animal I had ever seen. As I tried to focus on his face, he looked me dead in the eye and spoke. Well sort of, actually it was more of a growl. And as he chewed the big bud, a huge grin broke out across his hairy, leathery face. I'm not much into body language but that smile told me that he definitely liked what he was eating.

I started to relax a little more and decided to fire up another joint, curious about what his reaction would be to this. He wasn't startled this time. So far, so good. He just stared as I took a hit. As the smoke drifted past his nose, he made a face similar to that of a horse sniffing the wind. I blew some more smoke his way and this time he took a deep long sniff. As he exhaled, another big-ass grin wrinkled his face. I exhaled another hit at him and this time he blew it right back in my face. Geez! What bad breath. Then suddenly, he stood

continued on page 75

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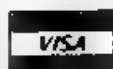
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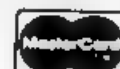
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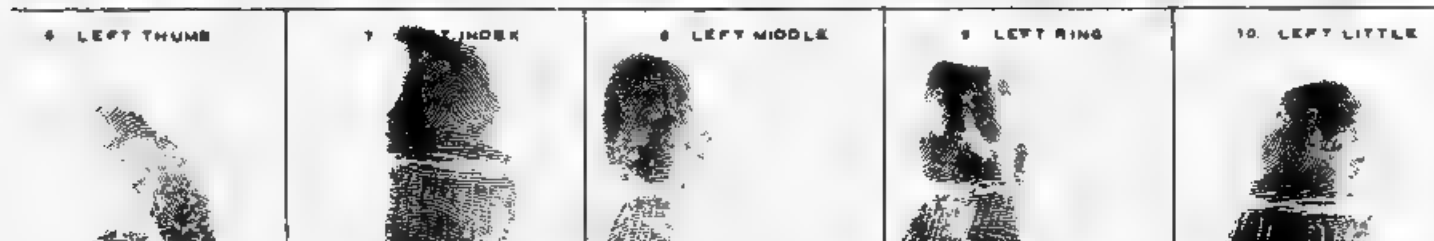
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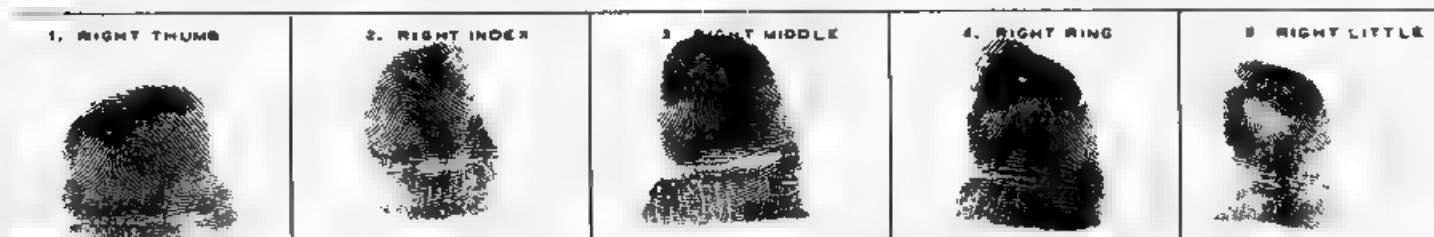
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ASK - ED

continued from page 66

SELECTING A MALE

Dear Ed,

How do you go about selecting a potent male for plant breeding?

—LiD

Menominee, MI

Choose a vigorous healthy plant. With a magnifying glass or photographers loop, look for capitate THC-bearing glands. Compare the number of glands of different plants. Smoke some of the weed and see which is most potent, flavorful or whatever. You might want to look for a plant with specific characteristics, such as resistance to pests or drought.

LIGHTING A CLOSET

Dear Ed

I have a 3 1/2' x 2 1/2' by 6' area which I am using as a grow room. I use three 150-watt (incandescent) grow lights and one 4' cool white fluorescent. My main problem is heat. To reduce it I am using a three-speed oscillating fan. The temperatures range between 94-100°.

I have decided to invest in a light unit. What should I get?

Thank you,

—N.A.,

North Chicago, IL

You are right. The incandescent grow lights you are using are very inefficient light producers. By using high pressure sodium (HPS) lamps instead, the grow room will receive about 2-4 times the light, using less electricity. The room is 8.75 square feet and can be illuminated by a single 150-watt HPS lamp. Adding an additional lamp would double the brightness and increase the growth rate and size of the buds.

The heat buildup in the grow room slows the growth of the plants at the same time that it causes the stems to stretch. Using fewer watts (150 or 300, rather than 490) and placing the lamp ballasts outside of the room will also help.

The oscillating fan does not help lower the temperature at all. It just blows hot air around. An exhaust fan placed at the top of the room blowing out will eliminate the hottest air from the space.

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MITEY QUESTIONS

Dear Ed,

If a room was infected with spider mites, but was cleaned, swept and has lain empty for a year, is it still infected?

Do spider mites live in the soil or on the plants? Does a cool room slow them down? How about humidity?

—Big Al,
Steubenville, OH

Mites cannot survive in a room without plants to eat, so cleaning out a room and keeping it plant-free for a while eliminates the mites. However, it is a good idea to wipe down the grow room with a 5% bleach solution to eliminate any other infections which might have occurred. Add 1 cup of bleach to a gallon of water. Make sure the room is well ventilated when you work with it.

Mites live and lay their eggs on the plants, not in the soil. However, the top of the soil may contain mite eggs from fallen leaves.

Mite life-processes are affected by both heat and humidity. Being cold-blooded creatures, mite metabolism is regulated by environmental temperatures. The cooler it is, the slower they eat and reproduce, so mites living in a high temperature regimen increase populations more quickly than those living in a cooler space.

Mites suck plant juices as their only source of food. These liquids are relatively dilute in proteins although they contain quite a bit of sugar. In order to obtain adequate amounts of protein, the critters must process a lot of liquid. In a dry environment this liquid is easily evaporated into the atmosphere, presenting the mite no problems. In a more humid environment, the mite's ability to suck sap is limited by the amount of water that it can eliminate. In humid spaces the mites' metabolism and reproduction are slowed down.

Predator mites eat a relatively high protein diet, other mites. In a dry environment, they experience water stress since their limited supply of water obtained from mite juices dissipates into the atmosphere. They are not hampered at all by a humid environment.

HOPS GRAFTS

Dear Ed,

Drake's book, *Cultivator's Handbook* described grafting experiments conducted during WWII by a government

continued on page 76

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BIGFOOT

continued from page 71

up. This dude was absolutely huge, but actually not that wild looking. I've seen grubbier bums than him in the local bars. He started to reach for the main cola on the skunk-afi plant right next to me, and without thinking, I slapped his big hairy hand as it closed in on my bud. At that point, I fully expected to die, but to my amazement, he stuck his stinging fingers in his mouth, just like my kids.

Then he gave me one of those looks like "what the hell did I do?" and I told him while pointing to the top bud and then myself

"No man, don't eat that, that is mine... you eat this!"

And I pinched off a lower branch bud and handed it to him. He opened his hand and as I put it in, I urged it toward his mouth, which sure didn't take much encouragement. What a character. I decided to give Big Foot a bunch of the lower buds to take home with him. That way, maybe he would leave the best part of the plant for me. Besides, can you think of a better pot garden-guard than him? As I handed him the buds I assured him that the tops were mine, bottoms were his. With one last smile, he turned and walked into the forest darkness.

I quickly packed my gear and headed back for camp, wondering whether or not I had just had an incredible hallucination or what. I made it back in record time and even managed to step on my sleeping guard dog.

It took me a long time to fall asleep. Eventually exhaustion overcame my racing brain and my body finally got the rest it was yearning for.

When the first morning light poked me in the eye, I awoke feeling pretty energetic. My two sons weren't awake yet, so I decided to take advantage of the tranquility, roll a breakfast doobie and pack up a little. I walked to the car and got my stash out. As I sat in the back of the car, I took a short

glance across the camp and my eyes stopped at the center of the campground picnic table. As soon as I realized what I was seeing on my table, the strong aroma of skunkweed reached my nose. Like a lightning bolt I was out of that car and standing in front of the table. Laying on the table was the biggest bud I have ever seen in my life. It was real close to baseball bat size and the crystal sparkled like it had been dipped in diamond dust. As I started to reach for the huge cola, the paranoia alarm in my brain went off and I frantically scanned the entire camp area thinking that it must be a bust or a set-up. But nothing was happening, no sirens, no helicopters, no anything, just birds chirping. Good enough for me sucker!

I quickly hid the killer bud in a tube that we carry our fishing poles in, jammed it in the car, and tried to act as if nothing was happening.

As I turned away from the car, I heard a rustling in the bushes nearby. Just above the top of a small scrub bush, a big brown hairy head was peeping out at me.

Sure enough, there he was, checking me out again. Hanging from his mouth like a huge piece of licorice, was a bud that looked like what I gave him the previous night. I waved and smiled at him. He smiled back, turned and zoomed back into the cover of the forest.

Just then, my youngest boy came stumbling out of his sleeping bag. A few seconds later, the other son was out, demanding a seven course breakfast. Small wonder more single parents don't run away from home. After feeding my savages, I packed all our gear and started the long trip back home.

All the way home, my mind raced at computer-like speed. There were so many questions unanswered. Was that really Bigfoot or some wacko in a suit? That huge bud that was left on my camp table was not off anything that I grew, therefore, does he grow his own? Is there a Mrs. Bigfoot? Does she eat ganja too? I bet he would like some hashish brownies. Maybe I'll find the answers in a few weeks when I return to harvest ●

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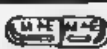
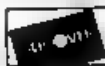
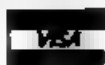
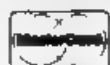
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Ask - ED

continued from page 74

scientist named Warnke, who was doing research on hemp. He used a cannabis rootstock with a hops scion. Drake went on to say that if one was able to produce seed from these vines, the resulting hybrid would be a perennial pot.

I tried this experiment and got a 50% success rate but the grafts never grew above 8" though the graft healed nicely. I just assumed the varieties were not compatible.

Did anyone ever produce smokable product using this process, and if so, how?

What about using *humulus japonicus* the ornamental annual, rather than *humulus lupulus*, the perennial hops used by Warnke and for brewing? Any reports of compatibility there? The seeds are almost identical with pot seeds, only a little bigger

—Old Soul

Escondido, CA

When you graft a scion to another rootstock, the new growth stems from the scion and is genetically identical to it. Examples are fruit trees and roses. Using a single rootstock, any number of scions can be grafted to create a multi variety tree. Each of the varieties will maintain its integrity. Grafting is used to combine an especially hardy rootstock to a plant with desirable flowers or fruits. Occasionally a shoot appears emanating below the graft. Its flower or fruit is much different than the scion's. Seeds produced from a hops vine grafted to pot would grow into hops plants not a hybrid.

To my knowledge no cannabis-humulus grafts have resulted in smokable weed.

I have heard of no experiments using *humulus japonicus* in a graft with cannabis. Nor have I heard of any breeding experiments, although it would seem that the plants are too distantly related to result in pollination.

SEEDS OR CLONES

Dear Ed,

I plan on growing outdoors next summer. Is it better to use clones or seeds? If I use clones, is it best to match the hours of light inside with the hours of light outdoors? I'm worried about the plants flowering too soon if I don't match the indoor-outdoor light cycle

—Ramjet,
Madison, WI

The advantage of seeds is that the plants have a faster initial growth rate

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than clones and they are easier to work with. The plants' sex and characteristics are unknown. Clones have the advantage of already being sexed and having known characteristics. However, there are prerequisites to using clones—a clone mother with superior characteristics, a cloning set-up and time to root the clones before planting outdoors.

On July 1, at the 45th latitude, the total daylight is about 15 hours, 34 minutes. Add another 30 minutes for sunrise and twilight. At 16 hours of light only the earliest varieties will flower. However, by August 1 the light is down to 14 hours, 41 minutes plus 30 minutes of twilight. Many mid-season varieties are on the cusp of flowering at this time.

There is no need to match the indoor and outdoor light cycles. The shorter days outdoors will not push the plants to flower unless they are a very early variety.

NITROGEN AND BIG SKUNK

Dear Ed,

I am in the process of growing Big Skunk, Big Bud x Skunk #1 Hybrid

Skunk #1 has the peculiarity of having limegreen growing tips. This gives the illusion of being a nitrogen (N) deficiency when in reality it is not. Big Bud, on the other hand has been known for the large quantities of N it consumes.

How will I be able to tell if this hybrid has a genuine N deficiency?

—The Scientist

South Jersey, NJ

One of the indications of N deficiency is loss of color of the lower leaves as the N migrates to new growth. The lower leaves turn yellow, then die. If the lower leaves start turning pale as compared to their normal color, an N deficiency is indicated.

• I welcome comments, tips, and questions regarding marijuana and marijuana cultivation. Send all letters to Ask Ed, HIGH TIMES, 211 E 43rd St., New York, NY 10017. Also send entries for the Bud, Plant, and Garden of the Month Contests. All correspondents whose letters or photos are used will receive a free copy of my book, **Marijuana Growers Handbook, Indoor/Greenhouse Edition**.

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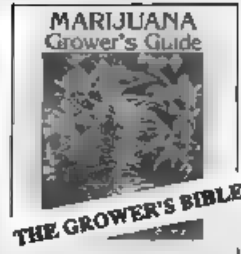
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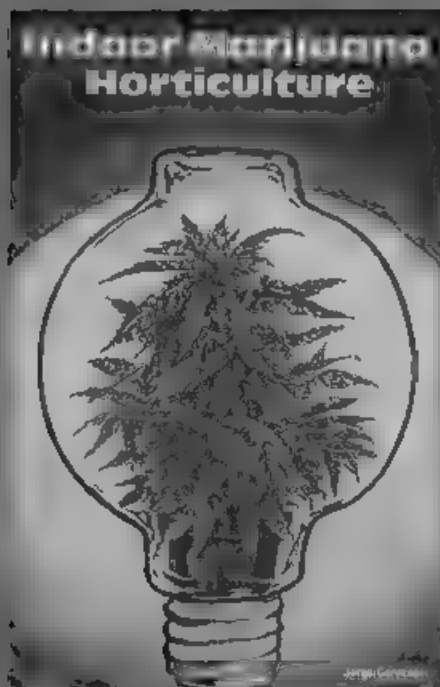
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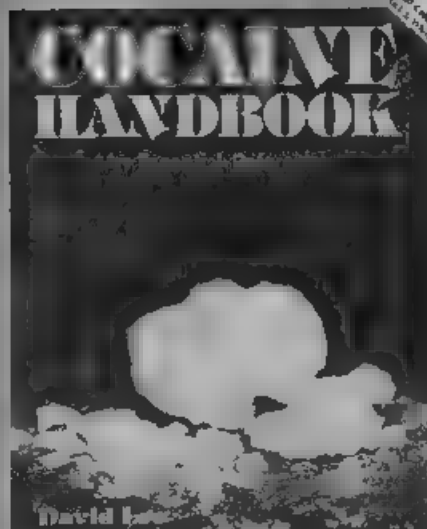
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Forum

continued from page 55

I've smoked pot for 15 years and completed an electrical engineering curriculum. I now work for a large company. Yes, they give tests to new hires. Perhaps if you give readers a slow, step-by-step look at what NORML has to do to defend the rights of Americans to smoke pot, more people would realize that NORML needs dollars.

—Electro-verl
Dothan, AL

NORML must make strides in three areas in order to protect the rights of pot smokers. First, it must educate citizens about marijuana and the marijuana laws. If the laws are more harmful than the substance they are intended to regulate, the laws must be changed. Furthermore, Americans must be educated regarding their inherent right to the pursuit of happiness, even if they harm themselves in the process. Parachute jumping, mountain climbing, boxing, cigarette smoking and unsafe sex are all dangerous activities which most Americans would agree are protected by the Ninth Amendment of the Constitution. They need to learn that marijuana use is part of that group of liberties.

NORML needs to educate Americans about other uses of the cannabis plant, too. It has untold medicinal, herbal, agricultural and industrial uses. Restrictive marijuana laws prevent farmers from earning a living growing hemp and increase our reliance on foreign agricultural and industrial products.

NORML's second task is to help progressive legislation and stop repressive legislation at both the state and federal levels. This means helping to educate legislators and their aides, as well as mobilizing public support.

NORML's third task is to pursue legal remedies to marijuana prohibition in the courts. NORML has been the main mover in the suit to force the DEA to reclassify marijuana so that it can be used for medical purposes. In addition, NORML has been involved in lawsuits concerning marijuana user rights all over the country.

If you think that NORML has not done as much as it could, you are right. It has virtually no money to pursue these efforts, so it does what it can. Its legal efforts have been the most fruitful in recent years.

Dear Ed,

While I agree that \$2,000 is a pretty paltry sum to get out of the NORMLTHON, maybe there are other things that can be done. For starters,

raising the price of HIGH TIMES by 5 cents to an even \$4 should generate an extra \$10,000 or so per month! Get the HIGH TIMES publishers to match that sum with a nickel per issue out of their side of the equation, and there's close to a quarter of a million dollars a year.

While I plan to give as much as I smoke in '89, I really think the "Top 100" NORMLTHON format is not the way to raise money. In the same issue that you complained of cultural genocide, "Mort for Prez" was in slot 61 and "BBB" was number 41. There's got to be a more tasteful way to raise money than this.

Keep up the good work!
—Dave A.,
Northampton, MA

At first glance raising the news-stand price a nickel seems like a pretty good idea. However, everyone (distributor, rackler, jobber, and retail sales counter) takes a slice of the nickel before it gets to NORML. NORML would get less than 2 cents out of the deal. Still, there are merits to the idea. Perhaps a voluntary checkoff with subscriptions is possible, or perhaps the HIGH TIMES advertisers would contribute a percentage of their sales during a certain time period—"NORML MONTH".

Ultimately, it is up to the individual to make a commitment. There is no excuse. If you must remain anonymous you can contribute. If you cannot spare the change, perhaps you could help with education, organizing or fundraising.

As for the Top 100—anything that will get HIGH TIMES readers who are cheapos to contribute a few cents to save their own necks is tasteful to me.

Dear Ed,

If you're a toker and don't support NORML, you are a horse's ass. You get what you pay for. You don't have to be a college graduate to see the strength and power of the National Rifle Association (NRA). It is so powerful because of its membership. Members count.

Now is the time to start preparing for the '92 election. Under the continued Republican administration, personal rights will continue to be eroded.

If you're not a registered voter, you're not much more than a lump of buffalo shit in the eyes of our elected officials. Fifty million Americans smoke marijuana. We have the numbers, but if we're not organized, we don't matter. Membership for NORML is only \$35. I've pissed that much away in beer in one night.

The slogan for tokers looking ahead to the next election

I Toke—I Vote

Make our elected officials deal with us.

—Seedless,
West Chester, Iowa ●

NEXT MONTH



Guns, Drugs, and Money: The Triangular Trade and the American Political Merry-Go-Round (text and illustrations by Eric Drooker) • **Injustice for All: a state-by-state breakdown of pot laws in the US** • **An exclusive interview with Abbie Hoffman** • **Also: The Tale of Two Gardens Part 3, Dr. Lunglife's Guide to Safe Smoking, Swamp Thing, and Reefer Rodent.**

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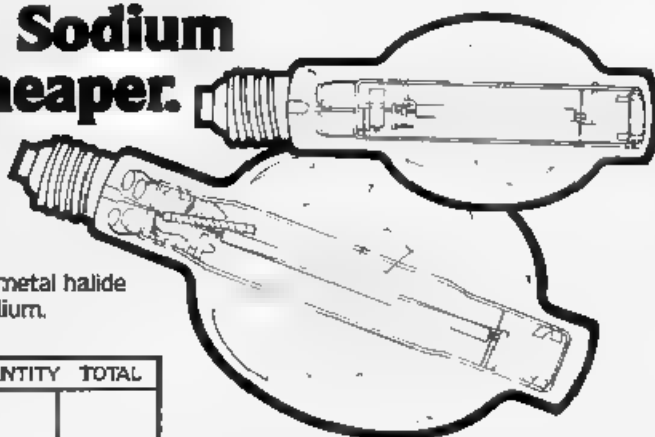
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BOCKRIS

continued from page 68

HT: You told me earlier that we live in intelligent times. I would disagree. These are boring, stupid times.

VB: I think there's a great deal of intelligence in the air at any given time. I think intelligence is making the connection between things in the time you're living in. For example, if you read the history of the century, year-by-year, you'd see that, every year, fascinating, incredible things are going on. Not just in terms of the news, but people making discoveries or people creating things. Ten years later, you'd say, "If I was really aware, I would have done this, I would have done that." But if you project yourself into the present, you will find it's very interesting what's going on.

We never see the present. We always see it later on. We say, "Remember the time we heard that record?" I'm saying, just see it now. Get jolted by now.

HT: That's difficult for a lot of people.

VB: It is. It's very difficult. Listen to a tape recording of yourself, play it back immediately, and you don't like what you sound like. You don't like what you said. Change it, change it, change it. No, you can't change it. You did it. People don't like that.

But I think being in the now is the thing. And the people I have written about were in the now, mostly, and that's what turned me on about them. They had no fear. If you're in the past, you're protected. If you're in the future, you're protected. Because you're not here.

Many people, reading an interview like this, will think "Oh, he's talking about a celebrity like Andy Warhol or Debbie Harry." They disassociate the possibility of a real personal relationship because the celebrity blocks that. While Tom Forcade wasn't a celebrity in that sense what I'm trying to say is, my interest is in celebrating these really great people. Celebrating them for who they are as human beings in relation to what they're doing and how wonderful that is. It's great to talk about Tom. He's a great example, because I would celebrate Tom just as much and in the same way as I would celebrate William Burroughs or Andy Warhol or Debbie Harry or the Velvet Underground or Muhammad Ali. To me, he's on the same level—a great person who played a very strong and important and courageous role in our culture. I'm not just a person who writes about celebrities; I'm a person who writes about very important people in the culture, and I feel that these people are very important. And Tom is there. ●

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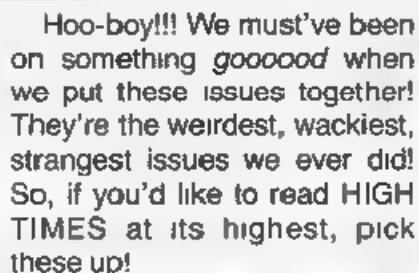
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On the cover: Pop star Samantha Fox, whose latest album is available on Jive records



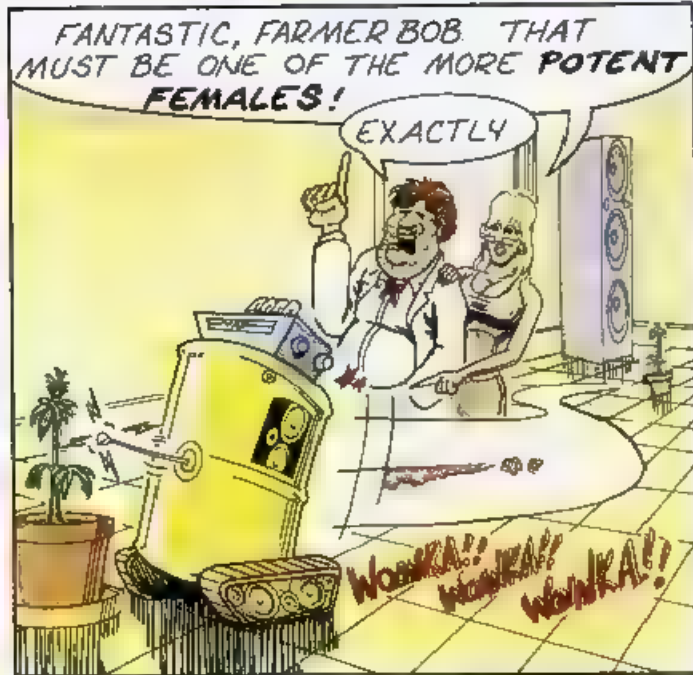
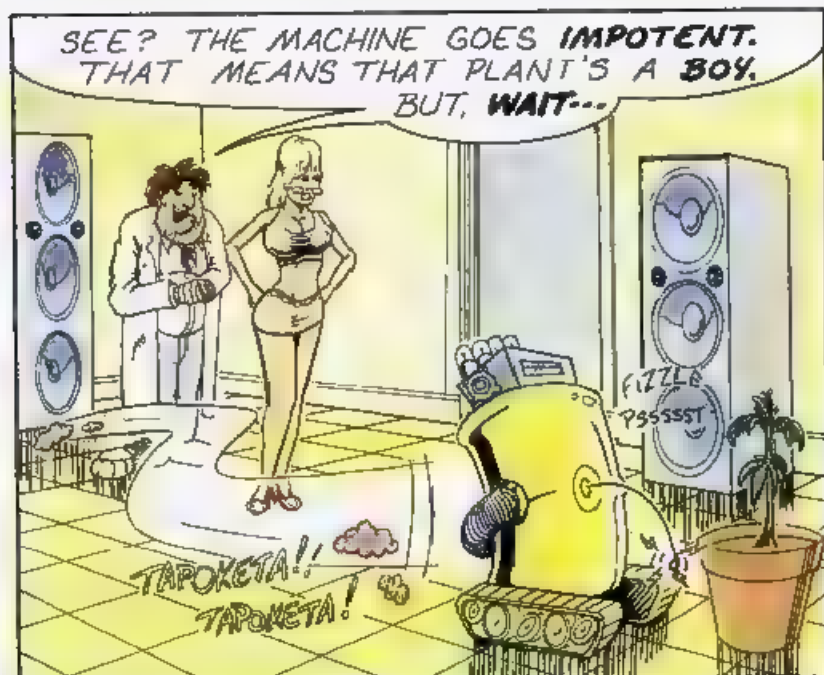
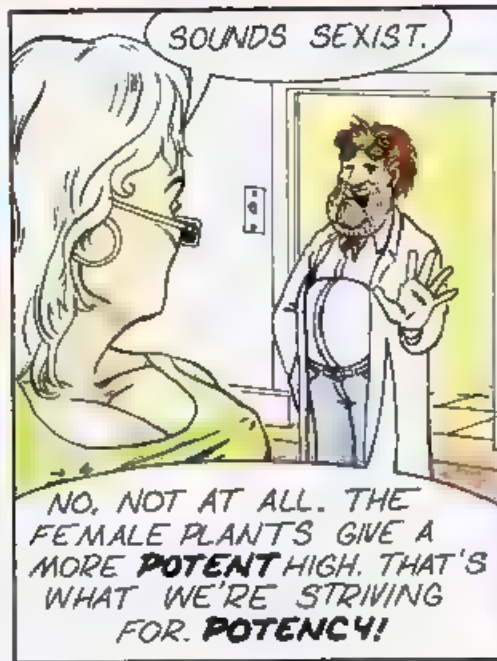
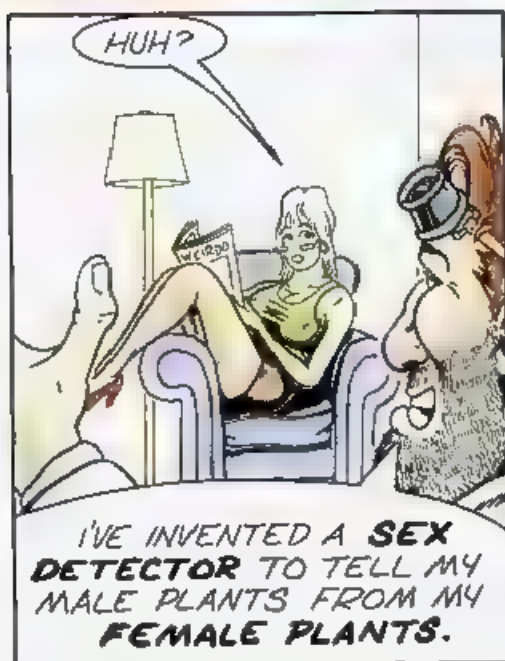
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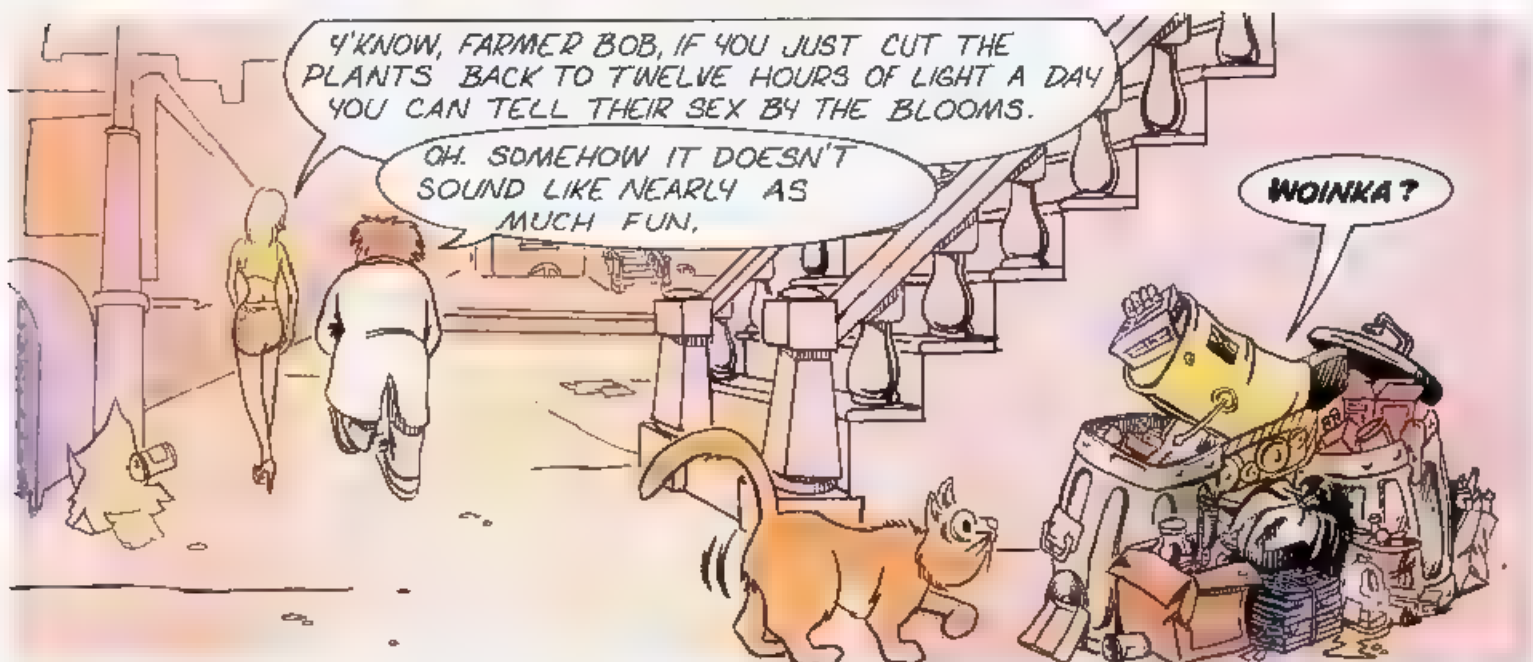
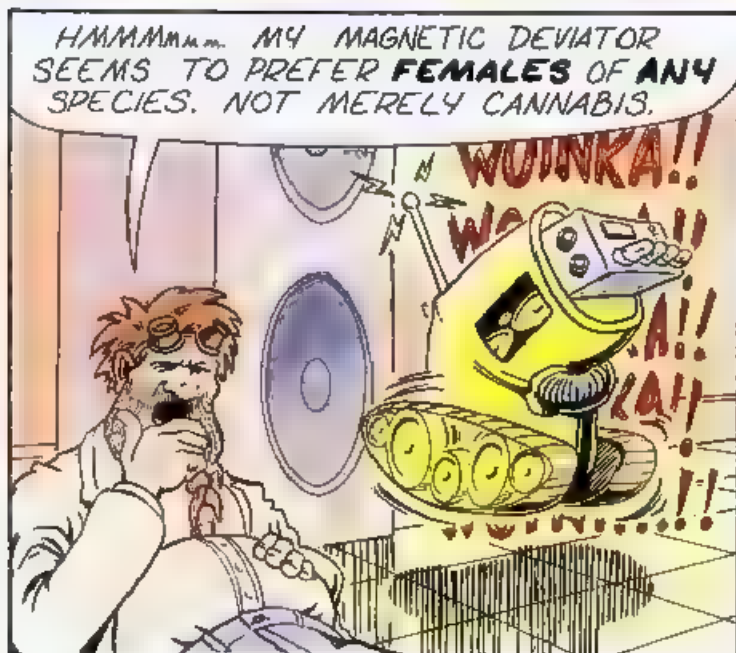
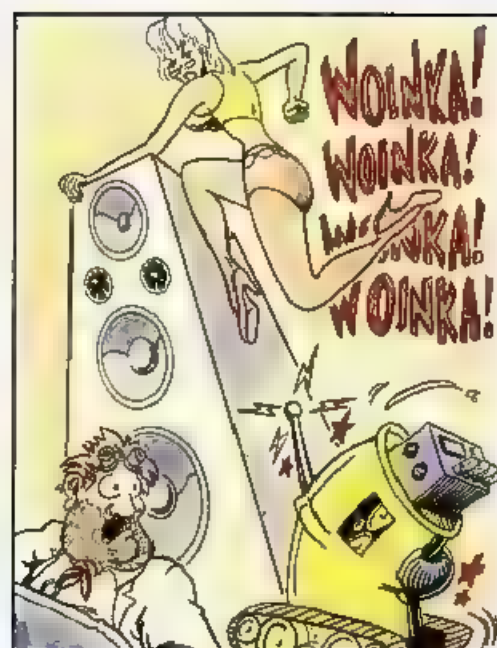
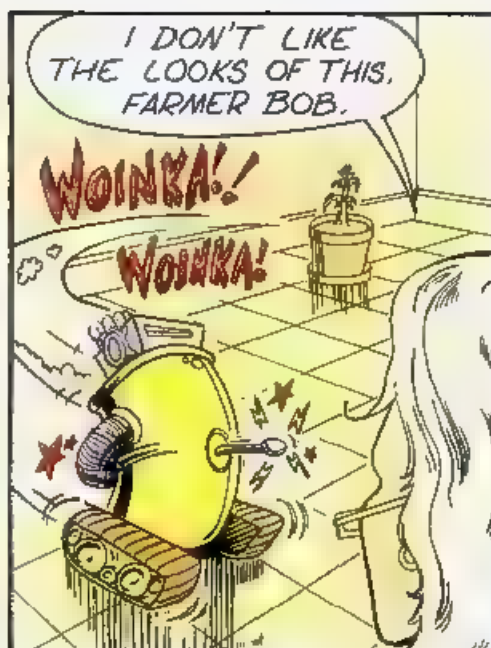
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IT'S A BOY!!
IT'S A BOY!!

WHAT NOW,
FARMER BOB?

MY MAGNETIC
DEVIATOR SAYS
THIS PLANT'S
A BOY!





Special Report— The HIGH TIMES Christmas Party YULETIDE BACCHANAL ROCKS NEW YORK

All photographs by John Eder



While most people were hard at work preparing for the Christmas season, the gang at HIGH TIMES had something more important on their minds—celebrating it! More than 400 friends, fans, and followers of the nation's leading counterculture magazine came from around the country for an evening of buds, booze, trips, and tunes at New York City's wonderful Lismar Lounge.

The invitation-only bash got off to a typical HIGH TIMES start as soon as the revelers-in-waiting made their way past the doorman—quicker than you could just say ho, joints were blazing, beer was flowing and guests who preferred their decadence administered in rubber (don't we all, these days?) were seated, balloons in hand, at the nitrous bar set up especially for the festivities.

Entertainment got underway with a performance by psychogarage rockers *extraordinaire* the Soul Assassins and the Assassinettes (the two sexy stocking stuffers

shown in all their glory on the opposite page), whose appearance hit one of many high points when they were joined onstage by none other than Santa Ra (aka *Rasta Recipes* mon Chef Ra) who, like the Wise Man he is, came bearing gifts of gold, frankincense, and myrrh-ijuana for the assembled multitudes. An extra treat was a performance by veteran marijuana minstrel David Peel, who played a surprise set with his band, the Lower East Side.

Guests came and went as the evening wore on, and the party eventually ground down to a hard core of about forty. But even the best of times come to an end, so the people still debauching as the club closed for the evening did the only thing they could—they took the party to the streets. And judging by the empty office the next day, New York's streetcleaners must have earned some healthy overtime!

As you can tell from these photos by HIGH TIMES lensmeister John Eder, spirits were as high as the lucky guests!

—Edie Barrett



1



2



4



3



5



6

1.) Chef Ra spread good will towards men as he gave out goodies to the party guests. 2.) One Man's Dope-ster Dean Latimer was there to join in the fun. 3.) Hep Cat writer Aid MacSpade and his wife Zoe were among the guests. 4.) The Soul Assassins and the Assassinettes (UPM cover girl Kimona 117 and Abbey Lacine) made sure everyone had a psycho-sleazy good time! 5.) Literary terrorist the General wreaked some yuletide havoc, too! 6.) Contributor Dale Ashmun demonstrates proper beer-drinking etiquette, *HIGH TIMES* style.

RASTA RECIPES

by CHEF RA



Throughout history, the forces that be have always tried to legislate morality. They have tried to control the flow of free thought and ideas. And above all, they have been successful in most of the societies of the world in practicing what is called "cultural imperialism." I'm sure you have heard of the concept that Big Brother is watching you; well, my people "Big Brother" is on the scene right in your neighborhood! Cultural imperialism seeks to root out and destroy the innocent children of the "Pot Culture" of America. When a dominant culture tries to control some particular aspect of another culture, that is cultural imperialism! The question we have to ask ourselves is "Have we seen this phenomenon before?" The answer is "Fuck yeah, we've seen this shit before!" Big Brother has tried to pull this crap from one continent to the next, from Nazi Germany to Africa, from Russia to Asia to South America, backsliding all the way to America! The jackboot of

oppression wants to take over Chef Ra's cooking pots, but I say, "Out of the kitchen, Big Bro, unless you want to EAT!"

The first move of the cultural imperialist is to take over your religion. They shove their bullshit political trickery down your throat, and force-feed you some new great fashion. Next they slap the cuffs on your lifestyle, and their last move is to take over your mind! The Great Moralist Minority-Majority has created a law that makes possession of one herb stick punishable by a \$10,000 fine. Chef Ra thinks this is a crock pot full of shit! It's only another misguided attempt to solve the "drug problem," but we all know most of the "problem" is deeply rooted in the hate, poverty, ignorance, and general lack of direction that prevails in this society. We are moving forward from a time of innocence when do drug was evil. We now know better. Ganja has always been better. Chef Ra admits that a lot of folks

are fucking up on crack, boy, booze, and a host of other drugs, but the HERB doesn't have the negative impact on society that the rest of those drugs have.

When you smoke the herb you want to smile, not hurt people. When you cook with HERB (which is better for you than smoking it), you want to do healthy things like eat more, sleep more. I think that there is a lack of understanding in governmental circles as to the "real" impact HERB has on society. Potsmokers shouldn't be stereotyped as drug madmen. We come home from work, lay back, relax and smoke a joint, turn on the TV, eat a bunch of good food, fall asleep and get up and go to work the next day. Potsmokers are just everyday people—we have families, friends, and hold upstanding positions in society. So no way are they gonna take away our herb sticks! Chef Ra wants you to join us in the HERB LIBERATION MOVEMENT! Starting this Spring in Ann Arbor, the HIGH TIMES crew will kick off a nationwide series of peaceful, non-violent pot protests. Chef Ra will be there to teach you how to cook with the HERB, and boy, are we gonna have fun in the kitchen! They can't outlaw cooking with herb! We'll give the cops a big plate of RASTA PASTA—who can turn down a good meal? ●



ERIC DROOKER

Chef Ra's Roll Ya Over Egg Rolls

- 1 1/3 cups of black seaweed
- 1 1/2 cups of chopped green onion
- 1 cup of chopped Chinese cabbage
- 1 cup of chopped shrimp
- 1/2 cup of bean sprouts
- 1 T ginger
- 3 cloves of chopped garlic
- 1 T soy sauce
- 9 T peanut oil
- 1/4 oz. line sinsi
- 1 T corn starch and 1 T water for thickening

Put 5 T of the peanut oil in pan and fry seaweed, onion, cabbage, shrimp, sprouts, garlic, ginger, and soy until cooked (a few minutes). In a separate pan, par-boil the herb in 4 T of peanut oil. The best way to cook the herb is to take a small saucepan, fill it with water, and bring the water to a boil. Then take a small cup of oil and herb, place it in the middle of the pan so that the hot water surrounds the cup, and heat the peanut oil and herb until nice and hot (for about 10 minutes or until you feel herb is being cooked in the oil). Once mixture is cooked, add thickening and peanut oil—herb to each egg roll adding 1 1/2 T to each roll. After you tuck and roll each egg roll, fill a pan with enough oil and deep fry each roll until golden brown.

HIGH NOTES

by ERIC DANVILLE



Samantha Fox—Top 100 bound or what?

Where do I begin to tell the story of how great a love can be? Probably right after the HIGH TIMES Christmas party. The holiday celebration was doubly joyous for me, because I had just bought a round-trip ticket to London with my Christmas bonus.

My second day in London I decided to go for a little walk. Strolling past a cafe on Oxford Street, a woman about ten feet ahead of me dropped a paperback book which had been tucked in the front pocket of her purse. I picked it up, glanced quickly at the cover, then ran the few steps to return it to her.

"Excuse me, Miss," I said, not wanting to betray my American accent, "but you dropped this."

"What?" She looked at the book in my hand, then quickly at her purse. "Oh! Thank you, luv! That's very sweet of you."

"Oh sure, no problem," I offered, turning to leave and thinking how interesting it was that she had said "love" with its slang spelling.

Her hand caught my sleeve. "What's your name, boy?"

"Eric," I said. "What's yours?"

But I already knew. She was Samantha Fox, British pop star and sometime topless model, whose latest album, *I Wanna Have Some Fun*, had recently been released by Jive Records.

It's a great album, which teams Sam's sexy accent and enormous talents with some of the hottest producers around: people who have worked with Debbie Gibson,

Bananarama, Lisa Lisa, even Ozzy Osbourne. *I Wanna Have Some Fun* should prove that Sam is not just a one-hit wonder; not only does it feature a great version of "I Only Wanna Be With You," but the album's title track is Sam's fourth Top Ten hit in three years—that must count for something.

But to most rock critics, the line between pop star and pop tart is very thin indeed, and the fact that Sam started her career as a Page Three girl (those topless models who appear in British tabloid *The Sun*) seems to count against her. Those same rock critics should wise up—not only is Sam talented and beautiful, she's also smart. Unlike Vanna White, you won't find Sam in a dither because some sleazy skin rag unearthed nude pix of her and figured they had an "exclusive." No, Sam won't plead poverty or youth or art—she poses nude by choice and gets paid quite well for it. So, let the who is without skin cast the first stone, y'know?

But back to my encounter with Samantha. We had lunch and talked for hours. She asked me about what I did when I wasn't talking to naughty girls. I thought I'd impress her by saying I work at HIGH TIMES on the cutting edge of the cannabis legalization movement; she smiled and laughed politely, but I could tell she didn't know what the hell I was talking about. After we finished lunch, she invited me to go dancing that evening. I accepted.

From our first kiss I was hooked. Her

lips were soft, her hair silky, and she moved like a jaguar when she danced. Not only could she sing like a dream, but just hearing her talk was enough to bring on certain anatomical changes our current political climate prohibits me from describing here. But that was true of most women I met there, from the business women to bartenders to... ah Sam.

A deep relationship was taking shape, one we both worked to cultivate like a closet full of clones. But we knew it couldn't last. I would be leaving in a week, and she had a career and a public life to deal with. We vowed to see each other as much as possible in the time remaining. We went window shopping, went to street fairs; we left scuff marks on local dance floors that the DJs are still talking about. It was heaven.

My last night in London was the best I'd spent anywhere. At Sam's flat we had dinner on 100-year-old china and drinks served in Waterford crystal. After dinner, Sam and I retired to the parlor and had brandy in front of the fireplace. It was there that she asked me.

"Eric, I'm not the type to be overly emotional, you know that. But, well, I've got something to say, luv."

"Yes, what, dear?"

She took my hand in hers and caressed her cheek with my palm. "I'd like to continue this. Forever I'd like you to marry me."

I was stunned. It was one of the first times in my life I was speechless.

I loved Sam; I still do. But I couldn't accept her proposal. She offered to help me with my writing career, she even asked me to join her band, but I couldn't do it. She has a career of her own, which *I Wanna Have Some Fun* should help by proving to the critics that tits don't sell records; if that were the case, Tiffany would be working the graveyard shift at Burger King. Sam's tits sell posters and calendars; her records sell because they're good.

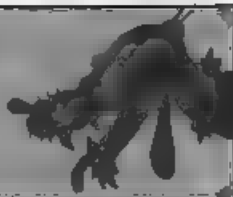
Besides, I had to be at work first thing on Monday.

Refusing Sam's proposal was the hardest thing I've ever had to do. But even though we wouldn't get married, our relationship was far from over. Sam drove me to the airport the next day, and sat with me until departure time. We made plans to see each other again, on May 18, at 3:00 PM, under Big Ben.

Until then, I have her album to remember her by. And a fine album it is. I play it constantly, not just because it is one of the best dance records since the first Madonna LP, but also to remind me of what awaits me in London—a sweet British lady with a fine sense of humor, a great voice, and the nicest assets on either side of the Atlantic. ●

HOUND'S EYE

by JAMES MARSHALL



Compact discs—like other realities of the Reagan '80s, (yuppies, AIDS, ultra-conservative teenagers, men with no sideburns, drums that sound like industrial machines, Sting, and Bruce Springsteen), I hate 'em. But now I have my own CD player and a shelf full of CDs which I hate. Well, I couldn't pass it up, the player was hot, a pretty good model for only \$100 and the seller threw in my choice of a dozen CDs, many of them imports and bootlegs, so I got about \$250 worth of the little frisbees for free with the machine. Now, I know there is a very slim chance that your taste in music is anything like mine (yet magazines still ask me to write about music... go figure) but from a relatively unbiased approach considering sound quality, value, and general worthwhileness I'll run down the pros and cons of some of what I've picked up and why I still think that records (especially 45s) sound better.

BUDDY HOLLY—*From The Original Master Tapes* (MCA)

Everyone recommended this one, so being a pretty big fan of the Budster I jumped on it. It does sound nice (especially if you really want to hear such nuances as Buddy's pick thwanking against the pick guard), you get 22 tunes for your \$15, but for a mere \$36 you could get MCA's six record box set and get over a hundred cuts (everything old four-eyes ever recorded, or even got near the studio) plus a booklet that includes lots of great photos and memorabilia (my favorite being an ultra-racist postcard from drummer Jerry Allison to his parents) and that sounds great too.

THE ROLLING STONES—*12 x 5* (ABKCO)

—*Hot Rocks I* (London, West Germany)

—*Exile On Main Street* (Rolling Stone Records)

A reasonable starter selection of classic Stones. The American CDs of their classic early LPs sound muddy, especially *12 x 5*, which sounds worse than the disc (the newly remastered Virgin final LPs sound great though) at twice the price. The German import of *Hot Rocks I* is an oddity—only 12 tunes, but seven of them are in stereo, sort of, which makes it interesting to the ears of an obsessive Stones fan like myself. It's not really stereo, it's the two-track master tape split

down the middle and made into stereo, so Brian Jones' acoustic guitar on "Satisfaction" (which was inaudible on the various vinyl versions) is now way out in front; you can even hear it get louder and softer as he stumbles closer to the mike. Since these two-track tapes were the session masters that the Stones bounced back and forth while they overdubbed, it sounds cool because you can figure out exactly how it was recorded. For example, on "Heart Of Stone" the guitars (recorded first) have disintegrated somewhat through bouncing while the tambourine (added last) is the freshest and loudest instrument on the left track. Weird, but it's an expensive cheap thrill as this thing goes for about \$25, if you can find it. *Exile on Main Street* has been remixed and remastered for CD, and it sounds pretty good, still murky in spots, but I like it murky. The only real advantage here is you can play it louder and program out the few clinkers



LITTLE RICHARD—

The Essential Little Richard

Twenty cuts strong, I could live without "Baby Face" and "By The Light Of The Silvery Moon" (they could've thrown on "Chicken Little Baby" or some alternate takes), but the other 18 cuts, all classics, sound great, especially "Hey Hey Hey", the only one of his classic Specialty sides with two guitars. Worthwhile even if you have the LPs. Why, I dunno.

ELVIS—*The Complete Sun Sessions* (RCA)

Now *this* burns my ass. It really

sounds like dogshit. First off, that cheesy echo was not part of the Sun sound and isn't on the original discs. The only echo that was part of the original recordings was a little bit of slapback on Elvis' voice. Not only did they add that annoying sonic whoosh but there's all kinds of shitty hiss and noise, especially on "Mystery Train", which has a high pitched whine running throughout making Elvis' finest moment virtually unlistenable. Get the RCA silver line 45s (which sound better than the original Sun 45s) or the U.K. pressing of *The Sun Sessions*.

JELLY ROLL MORTON—*The Pearls* (RCA/Bluebird)

Various Artists—*Ragged But Right: Great Country String Bands of the 1930s* (RCA/Heritage series)

Considering both of these discs feature recordings made before tape was used, they both sound pretty remarkable. The computer process of removing noise from old 78s and metal masters has undergone some criticism lately but you won't hear these things sound better unless you have mint copies of the original 78s (fat chance).


Jelly Roll Morton's great late '20s/early '30s sides really sound astounding "Freakish", "Red Hot Pepper Stomp", "I Thought I Heard Buddy Bolden Say", et al come alive just like you were sittin' in a New Orleans whorehouse waiting to get the clap. Over an hour of music and I think I paid \$10 for it.

Likewise, *Ragged But Right* features great grungy string bands like Gid Tanner & his Skillet Lickers (the Rolling Stones of Georgia, circa 1931) and J.C. Mainer's Mountaineers doing songs that would later become hillbilly standards ("Ragged But Right", "Shady Grove", "Short Life & Its Trouble", "Ida Red"); and you can hear every screech, every out of tune string, and even a few belches. This was country music before Nashville put it's uniform stamp of blandness on it, as played by gnarly old hillbillies with odd numbers of fingers and toes. The digital transfer to CD process has made it sound pretty damn good. Don't try to read the stupid booklet if you smoke pot though, dryer, more unreadable liner notes would be hard to find.

ETC. Avoid virtually everything on Columbia. Iggy & the Stooges' *Raw Power*, the Byrds' *Greatest Hits* and every Miles Davis disc I've heard sound far worse than the records. Jazzbos might want to investigate Lee Konitz *Motion* (Verve) and *Inside Hi Fi* (Atlantic), the former having three unissued tracks and sounding great in stereo. ●

WHEN I FIRST STARTED DOING
THE TOP 100
FOR HIGH TIMES, I WAS BLOWN
AWAY BY THE RESPONSE!

IN FACT-
I STILL
AM!



I GET DELUGED WITH LETTERS,
CARDS, AND SEXUAL PROPOSITIONS


WOW! SOMEONE
SENT ME A
CONDOM!

I WONDER
WHAT FOR?




WHEN I THOUGHT UP THE TOP
100 NORMLTHON, I FIGURED IF
EVERYONE WHO SENT IN A VOTE
INCLUDED A LITTLE MONEY, WE'D
RAISE MILLIONS! SAD TO SAY,
IT HADN'T HAPPENED. YET!

THIS YEAR'S
NORMLTHON TOTAL
\$1,300.00



SO-IT'S YOUR TURN, READERS!
YOU DON'T HAVE TO SEND IN
ANY MONEY BUT IF YOU DON'T-
JUST LET ME KNOW WHY, OK?
THANKS! NOW-ON TO THE LIST!



1. **LEGALIZE POT**
2. **GRATEFUL DEAD**
3. THURSDAY IS FRY-DAY AT
JOHNSON + WALES UNIVERSITY
4. PRAISE THE ALMIGHTY FOR
HE IS THE GIVER OF HERB
5. PARTY HOUSE (THE ORIGINALS)
6. WOODSIDE WRECKING
CREW, NYC - SPIRAL ROCK
7. **CAPTAIN BEYOND**
MASTER GROWER
8. MINNESOTA GRASSROOTS
9. PARTY-VOTE THE WAY YOU LIVE
10. **PINK FLOYD**
11. **SEX ON ACID**
WEDNESDAY NIGHT AT
"HERBIE'S DUNGEON," S.I., NY
12. POWER TUBES
WITH KIEFF
13. **GREENPEACE**
14. **HIGH TIMES**
15. **SEX**
16. LATE NIGHTS AT 31 UNDER
(HAPPY BIRTHDAY, STEVE!)
17. LIGHT IT UP, BROVE!
(STILL FLYING HIGH)
18. **PETER TOSH**
19. **BONG HITS**

20. **KELLY BUNDY**
KENTUCKY'S TRUE POT GROWER'S HERO
21. **HEALTHY HEAD**
22. FOUR NIGHTS AT ALPINE
VALLEY, WIS., WITH THE DEAD
23. DEAD HEADS
24. BORE ME-RT FLAME WNC
25. **PSYCHEDELICS**
26. reagan
27. **ERIC CLAPTON**
28. MARRIAGE SUCKS
29. **L.S.D.**
30. HEMP FOR VICTORY
31. DON'T WORRY
BE NORML
JOIN TODAY
32. MURRAY ROTHBARD
"THE STATE'S GREATEST LIVING ENEMY"
33. RON PAUL FOR
PRESIDENT IN '92
34. HARLEY
RIDERS
35. CRISPY
36. CRITTY P LUB
37. **SAM KINISON**
38. SKIN ON SKIN!
39. WHO GIVES A F*CK ABOUT
THE ULTIMATE PARTY HOUSE
(CHRIS + GREG'S)
40. **LEGAL IN '89**

41. **10,000 MANIACS**
large breasts
42. **NHL HOCKEY**
(BOSTON BRUINS)
43. WATCHING A TORNADO
GO THROUGH MY BACKYARD
IN RALEIGH, NC
44. A NORML OUNCE
45. JAMES HETFIELD
46. THERE'S NO PEACE
WITHOUT EQUAL RIGHTS
AND JUSTICE
47. FOOD TO CURE
THE HUNGRY
48. **HASH BASH '89**
49. THE BUNDYS ARE A
TRUE AMERICAN FAMILY
50. GIRLS WHO
SWALLOW
51. BUST BUSH'S
DRUG WAR
52. MEATHEAD TRUCKIN'
(YOU CALL, WE HAUL!)
53. **SHROOMS**
54. IF THE WORLD ISN'T BIG
ENOUGH FOR POT SMOKERS AND
NON POT SMOKERS LET
THEM LEAVE!
55. **TOMMI GUNN**
56. SKATEBOARDING
IS NOT A CRIME!
57. DAN SIN! THE
58. **YATS DENOTS**
59. (AND WOMEN LIKE HER)

60. EDITH
(MY SPIRIT FRIEND WHO NOW
WATCHES OVER A SPIDER)
61. all classic rock'n'roll
62. **WAHDOHFUC**
63. SNOW BONGS
64. BUD + HERB
(TWO GUYS WHO ARE BROTHERS)
65. POT IS A VERY
MAJOR NECESSITY
66. **HASH & GLASS**
67. ARE YOU?
EXPERIENCED?
68. SMITH #43,276,012,462
69. X 100K + 2K T+Z
70. ELECTRIC BONG
SESSIONS BEFORE \$100
71. THE DEAD IN NEW
ORLEANS (OCT 8 '48)
72. JUST SAY NO TO BUDWEISER
CAUSE THEY GIVE MONEY TO CAMP
73. **PANK MONSTER**
74. Vintage Dead
75. BEING IN LOVE WITH JANA
(MIKE JRAW BIG BUD FOR
ROMAN UGH!)
76. **DOKKEN**
77. BUTTERFLY TATTOOS
ON GIRLS NAMED GINA
78. **RELIX**
MAGAZINE
79. GROWING IN
A AKA LEGAL

80. NO MORE CHEMICALLY
GROWN MARIJUANA!
81. **SAN DIEGO**
PONG SQUAD
82. CHEMICAL KEN
83. THE HIGH TECH HIPPIE
84. SAVE ME FROM
GLARLY, CHICKS
85. CAUGHT IN A MOSH
86. GINGER LYNN'S ASS
FOR MY SKI MASK
87. SMOKING HASH WITH MY
PARENTS WHILE ON VACATION
88. IN AMSTERDAM!
89. WHERE IS BONGHEAD?
90. DONATING MY LUNGS TO
MY BEST FRIEND SO SHE CAN
SCRAPE OFF THE RESIN
91. DON'T SELL TO
STRANGERS- THEY
92. MAY BE COPS
NITROUS WHILE TRIPPING
93. FEEDING CATS TO
MY DOG, UGLY
94. ARKANSAS
(JACK BILLS)
95. HAVING SEX WITH GIGI
5 YEARS + COUNTING
(I LOVE YOU, GIGI!)
96. I'M GRATEFUL
FOR THE DEAD!
97. HARVESTS THAT COME
IN OVER PROJECTED TOTALS
98. CHATEAU PHLEGME
(PURPLE SKUNK X HAWAIIAN)
99. WOW! THESE COLORS
TASTE LIKE MUSIC!
100. **CLIVE BARKER**
(BOOKS OF BLOOD- THE BEST!)
101. TAMMY FAYE BAKKER
ON ACID AT A DEAD SHOW

BUT -HEY! DON'T GET ME
WRONG! THE 1989 NORMLTHON
IS OFF TO A FANTASTIC START!


TOP 100 MAIL



I'VE RECEIVED SO MANY VOTES
THAT A SPECIAL TOP 1000 IS
PLANNED FOR THIS YEAR'S TOP
100 NORMLTHON COMIC BOOK!

ED SEZ
GIVE
AN
OUNCE!


SO-
THE COME
WON'T
BE OUT
'TIL THE
NORMLTHON
IS OVER!



NOT ONLY THAT-BUT SUPER
SPECIAL NORMLTHON EVENTS ARE
IN THE WORKS-LIKE CHRIS+GREG'S
ULTIMATE NORMLTHON PARTY!
THAT SHOULD BE LOTSA FUN!

THIS JUST IN:

UPDATE:
NORMLTHON
TOTAL NOW
\$400!



UNTIL THEN, THIS IS YOUR OFFICIAL
TOP 100 CHART COMPILER AND
CARTOONIST, JOHN HOLMSTROM
(THAT'S ME!) SIGNING OFF!
DON'T FORGET CONTRIBUTE TO
NORML (IF YOU CAN- IF YOU
CAN'T- PLEASE- TELL ME WHY!)

SPARE CHANGE
ACCEPTED -
GIVE A BUCK!



SEND ALL TOP 100 VOTES, NORMLTHON CASH + CHECKS, + NORMLTHON VOTES TO HIGH TIMES TOP 100, 21 EAST 43RD ST, NYC, NY 10017

I'M CONTRIBUTING TO THE
TOP 100 NORMLTHON!

ENCLOSED IS \$ _____ FOR:

#1

(\$20.00 OR MORE- FREE COMIC BOOK!)

I'M NOT CONTRIBUTING TO THE
TOP 100 NORMLTHON BECAUSE:

☐ I HATE ALL POLITICS

☐ I DON'T HAVE ANY MONEY

☐ POT SHOULD NOT BE LEGAL

☐ I DON'T UNDERSTAND IT!

☐ OTHER:

(CHECK ONE)

#1

#2

#3

USE THIS OFFICIAL NORMLTHON/ TOP 100 BALLOT IF YOU CAN- IF YOU ABSOLUTELY REFUSE TO CUT UP YOUR HIGH TIMES MAG, IT'S OK TO SEND 1 COPY!

DANSCO

INDOOR GARDEN CENTERS

One stop shopping

■ LIGHTING SYSTEMS

(all systems are completely wired with quiet, ventilated ballast enclosure and quick-disconnect lamp lead)
2 year ballast warranty and 1 year lamp warranty

1000W Metal Halide	189.00
(Superbulb)	
400W Metal Halide	139.00
(Superbulb)	
Metal Halide Phosphor Coated Bulbs	add 5.00
175W Metal Halide	110.00
1000W High Pressure Sodium	259.00
400W High Pressure Sodium	189.00
150W High Pressure Sodium	110.00
Horizontal or Parabolic Reflectors for 1000W Systems add \$10.00 & for 400W Systems add \$20.00	

■ BULBS

1 year lamp warranty

METAL HALIDE:

MS1000, 125,000 lumens	59.00
MS1000 Hor., 125,000 lumens, horizontal	69.00
MS400, 40,000 lumens	44.00
MS400 Hor., 40,000 lumens, horizontal	54.00
Metal Halide Phosphor Coated Bulbs	add 5.00
M175, 15,000 lumens	29.00

HIGH PRESSURE SODIUM:

LU1000, 140,000 lumens	69.00
LU400, 50,000 lumens	45.00
LU150, 16,000 lumens	32.00

HIGH PRESSURE SODIUM CONVERSION:

940W, 140,000 lumens	139.00
360W, 50,000 lumens	69.00

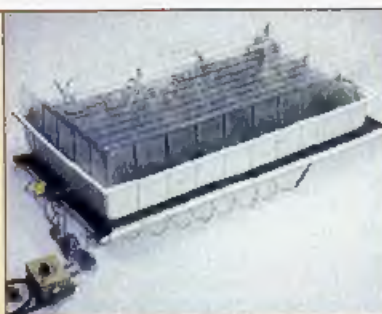
FLUORESCENT TUBES:

24" Gro Lux	7.95
24" Vita Lite	12.50
48" Gro Lux	9.95
48" Vita Lite, Power Twist	13.95

EBB-FLOW SYSTEM \$39.00/Module*



Includes: 44" x 24" Tray & Irrigation System
*(Benching, Pump, Timer & Reservoir purchased separately)



PROFESSIONAL PROPAGATION SYSTEM
\$169.00

Includes: 1 - 44" x 24" x 11" Propagation Dome, 2 Pro Heat Mats, Thermostat w/ Remote Probe & 1qt Cloning Solution

■ REFLECTORS

(Polar white finish on all, sockets included)

22" Round	24.95
44" Conical	39.95
48" Parabolic	54.95
84" Parabolic	169.95
Horizontal HPS	49.95
Horizontal MH	54.95

■ LIGHT MOVERS

4" Light Track	99.00
6" Light Track	99.00
1LS Sun Circle	139.00
2LS Sun Circle	199.00
3LS Sun Circle	259.00

■ HYDROPONICS

HYDRO-FLO I 265.00
Incl: 6 trays, 36 one gallon pots, reservoir, pump, timer, filter, irrigation, rockwool, nutrients & pH Control

Expansion Module 16.00

HYDRO CELL II 250.00
Incl: 12 two gallon cells, reservoir, pump, timer, filter, irrigation, rockwool, nutrients & pH Control

Expansion Cell 6.00

■ TEST EQUIPMENT

Digital pH Pen	59.95
Digital Dissolved Salts Pen	59.95
Combination pH & Dissolved Salts Meter	399.00
Professional Digital Light Meter	175.00
CO ₂ Tester	8.95
CO ₂ Analyzer Tubes	4.50
MIN-MAX Thermometer	12.95
Temperature Humidity Gauge	12.95
30x Light Scope	26.95
100x Light Scope	49.95

■ CO₂ SYSTEMS

Injection System, w/o tank	179.00
Injection System w/ exhaust control, w/o tank	279.00
CO ₂ Regulator/Flow Meter	79.95
DANSCO Propane Burner/CO ₂ Generator	269.00
Johnson Propane Burner/CO ₂ Generator	499.00

■ ODOR CONTROL

Zestron 700 Ionizer	79.95
Zestron 1000 Ionizer	79.95
Zestron Collector Ionizer	110.00
Zestron 3600 Ionizer	320.00
DANSCO Charcoal Air Filter	79.95
Ozone Generator for total odor removal	839.00

■ TIMERS

15A 120V, 24hr, Heavy Duty	19.95
15A 240V, 24hr, Heavy Duty	24.95
40A 120V, 24hr, Industrial	33.95
40A 240V, 24hr, Industrial	38.95
40A 120V, 1-60 minute cycle	67.95
15A 120V, 4 ON - 4 OFF, 1 minute min.	26.95

■ FANS & BLOWERS

100 CFM Axial Fan	25.95
240 CFM Axial Fan	57.95
560 CFM Axial Fan	68.95
60 CFM, Squirrel Cage	33.95
100 CFM, Squirrel Cage	38.95
140 CFM, Squirrel Cage	40.95
265 CFM, Squirrel Cage	49.95
465 CFM, Squirrel Cage	61.95
745 CFM, Squirrel Cage	128.95
980 CFM, Squirrel Cage	122.95
1450 CFM, Squirrel Cage	151.95
300 CFM, Duct Fan	44.95
425 CFM, Duct Fan	47.95
660 CFM, Duct Fan	51.95
9" Oscillating Table Fan	24.95
12" Oscillating Table Fan	33.95
16" Oscillating Table Fan	48.95
9" Wall Mount Fan	48.95
12" Wall Mount Fan	52.95
16" Wall Mount Fan	59.95

■ THERMOSTATS & HUMIDISTATS

Thermostat, heating or cooling	19.95
Thermostat, heating or cooling w/ remote probe	34.95
Humidistat 40 - 90%	47.95
Combo Thermostat-Humidistat Fan Controller completely wired with 2 outlets	109.95

■ SUBMERSIBLE PUMPS

120 GPH	36.95
140 GPH	38.95
170 GPH	39.95
205 GPH w/ float control	59.95
240 GPH	47.95
1250 GPH	67.95

■ PROPAGATION AIDS

24" x 44" x 11" Propagation Dome	49.95
48" x 11" Pro-Heat Tape	21.95
Thermostat w/ remote probe ± 1°	69.95
Woods Rooting Compound	7.95
Rootone F, 2oz	4.49
Olivia's Cloning Solution, 1 qt	11.95
Olivia's Cloning Solution, 1 gal	39.95

■ ROCKWOOL

1 1/4 x 1 1/4 Multi-Blocks .....	.07
2 x 2 Multi-Blocks .....	.10
3 x 3 Cube .....	.34
4 x 4 Cube .....	.48
6" x 3" Slab	4.75
8" x 3" Slab	6.25
12" x 3" Slab	9.50
45lb Repellent Bale	28.50
35lb Absorbent Bale	22.00
55lb Absorbent Bale	49.00
Full case discount of 10% on Rockwool products	

■ REFLECTANTS

4' x 25' Mylar	17.95
4' x 50' Mylar	27.95
4' x 100' Mylar	44.95
20' x 100' White Visqueen	59.95



SLAB SYSTEM \$59.00/Module*

Includes 3 - 3' x 8" Rockwool Slabs, Drip Irrigation System & Tray
*(Benching, Pump, Timer & Reservoir purchased separately)

■ BOOKS

Gardening Indoors	16.95
Beginning Hydroponics	7.95
Hydroponic Food Production	29.95
Rockwool In Horticulture	34.95

We also carry General Hydroponics, Sunco, WonderGrow and Eco nutrients and pH Control along with many other products. Complete price list available.



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WE WILL MEET OR BEAT ANY
REASONABLE PRICES BY 10%
ORDERS SHIPPED IN 24 HOURS
100% GUARANTEE

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"Super Strength"

SPECIAL PRICE
1000...100
\$30.00 | \$6.50

FASTONES

"FREE SAMPLES"
CODE
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250 MGS CAFFEINE



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MEDIUM**

FAST ONES FIGHTS THAT DROWSY
FEELING BY IMPROVING
YOUR STAMINA
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CONCENTRATION!

FAST ONES NEVER LETS YOU MISS
THOSE SPECIAL MOMENTS!

FAST ONES GIVES YOU EXTRA STAMINA
TO LOSE THOSE UNWANTED
POUNDS AND INCHES THAT
MAKE YOU FEEL SO
UNATTRACTIVE AND
UNDESIRABLE!

FAST ONES LETS YOU LIVE A MORE
EXPERIENCING LIFE!

CHOOSE FROM A WIDE VARIETY TO GET 100%
EXACT TYPE AND STRENGTH YOU PREFER
THAT'S SOMETHING STORES CAN'T DO!

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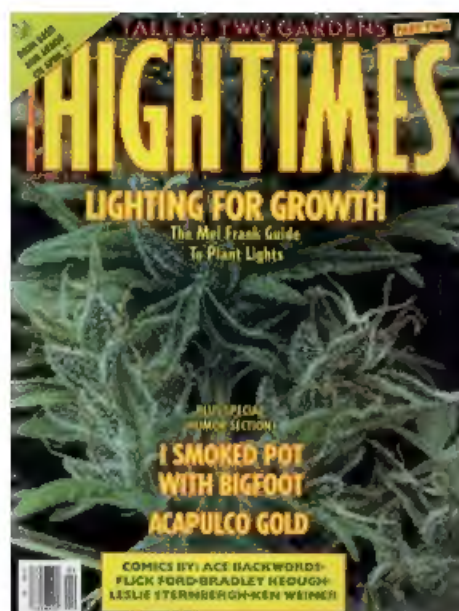
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High Times

APRIL 1989



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